

10/774,355

(469)

10/26/04

210		215		220
Ile Leu Lys Ile Gln Thr	Ala Asn Gly Arg	Gln Lys Ala Phe Ser Thr		
225	230	235	240	
Cys Ser Ser His Leu	Ala Thr Val Ser Ile	Leu Tyr Gly Thr Leu Phe		
	245	250	255	
Phe Ile Tyr Val Arg	Pro Asn Val Ser Ser	Leu Asn Ile Asn Lys		
	260	265	270	
Val Ile Ser Leu Phe Tyr	Thr Met Val Ile Pro	Met Leu Asn Pro Leu		
	275	280	285	
Ile Tyr Ser Leu Arg	Asn Gln Glu Val Lys	Asn Ala Phe Arg Arg Thr		
	290	295	300	
Leu Glu Lys Lys His	Phe Leu Thr Gly Ala			
305	310			

<210> 2001  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2001

Met Glu Glu Lys Asn Gln Thr Ile Val Met Glu Phe Phe Phe Leu Gly	
1 5 10 15	
Leu Thr Asp His Leu Tyr Gln Lys Ile Ala Leu Phe Ile Thr Ile Leu	
20 25 30	
Phe Val Tyr Leu Val Thr Leu Gly Gly Asn Leu Gly Met Ile Thr Leu	
35 40 45	
Ile Trp Ala Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser	
50 55 60	
His Leu Ser Phe Val Asp Met Cys Ser Ser Ser Ile Ala Pro Lys	
65 70 75 80	
Met Leu Cys Asp Ile Phe Ala Glu Glu Lys Arg Ile Ser Phe Met Gly	
85 90 95	
Cys Ala Ala Gln Met Trp Phe Phe Gly Phe Phe Val Gly Thr Glu Cys	
100 105 110	
Phe Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Thr Ala Ile Cys Lys	
115 120 125	
Pro Leu Leu Tyr Thr Leu Leu Met Ser Gln Arg Val Cys Val His Leu	
130 135 140	
Val Val Gly Pro Tyr Val Phe Ala Ile Ile Asn Ile Thr Thr His Thr	
145 150 155 160	
Thr Leu Ala Phe Cys Leu Pro Phe Cys Gly Ser Asn Thr Ile Asn His	
165 170 175	
Phe Phe Cys Asp Val Ser Pro Leu Leu Ser Leu Ala Cys Ala Asp Ser	
180 185 190	
Trp Val Asn Lys Val Val Leu Phe Val Leu Ser Gly Ala Ile Gly Val	
195 200 205	
Phe Ser Gly Leu Ile Ile Ile Val Ser Tyr Val Ser Ile Leu Met Thr	
210 215 220	
Ile Phe Lys Ile Gln Thr Ala Asp Gly Lys Gln Lys Ala Phe Ser Thr	
225 230 235 240	
Cys Ser Ser His Leu Ala Ala Val Ser Ile Leu Tyr Gly Thr Leu Phe	
245 250 255	
Phe Ile Tyr Val Arg Pro Ser Ala Ser Phe Ser Leu Asn Ile Asn Lys	
260 265 270	
Met Ile Ser Leu Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Leu	
275 280 285	

Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Phe	Arg	Arg	Lys
290						295					300				
Val	Gln	Lys	Lys	His	Phe	Pro	Ala	Gly	Arg						
305					310										

<210> 2002  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

Met	Ile	Gln	Tyr	Asn	Glu	Thr	Glu	Val	Lys	Gly	Phe	Tyr	Leu	Leu	Gly
1				5					10					15	
Phe	Gly	Val	Gln	His	Asp	Ile	Gln	Cys	Phe	Leu	Phe	Ile	Val	Phe	Leu
		20						25					30		
Ile	Ile	Tyr	Met	Thr	Ser	Met	Val	Gly	Asn	Thr	Gly	Met	Ile	Leu	Leu
		35					40					45			
Ile	His	Thr	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln
	50					55					60				
His	Leu	Ala	Phe	Val	Asp	Ile	Cys	Tyr	Thr	Ser	Ala	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Gln	Thr	Phe	Val	Val	Glu	Asp	Arg	Tyr	Ile	Ser	Phe	Gly	Gly
				85					90					95	
Cys	Val	Val	Gln	Leu	Leu	Ile	Tyr	Ala	Ile	Phe	Ala	Thr	Cys	Asp	Cys
			100					105					110		
Tyr	Leu	Leu	Ala	Ala	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Arg	Tyr	Pro	Ile	Leu	Met	Ser	Arg	Lys	Val	Cys	Ile	Gln	Met
	130					135						140			
Val	Ala	Gly	Ser	Tyr	Leu	Ile	Gly	Ser	Ile	Asn	Ser	Ser	Val	His	Thr
145					150					155					160
Gly	Phe	Thr	Phe	Ser	Leu	Ser	Tyr	Cys	Lys	Ser	Asn	His	Ile	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Pro	Pro	Ile	Ile	Ser	Leu	Ser	Cys	Ser	Asn	Ile
			180					185					190		
Glu	Thr	Asn	Ile	Lys	Ile	Leu	Val	Ile	Phe	Val	Gly	Phe	Asn	Leu	Ile
		195					200					205			
Phe	Thr	Val	Leu	Val	Val	Ile	Phe	Ser	Tyr	Met	Tyr	Ile	Met	Ala	Ala
	210					215					220				
Ile	Leu	Lys	Met	Ser	Ser	Thr	Ala	Gly	Arg	Lys	Lys	Thr	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Ile	Phe	Tyr	Gly	Thr	Leu	Ala
				245					250					255	
Tyr	Met	Tyr	Leu	Gln	Pro	His	Ser	Asp	Asn	Ser	Glu	Glu	Asn	Met	Lys
			260					265					270		
Val	Ala	Ser	Val	Phe	Tyr	Gly	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Ile	Lys	Leu	Thr
	290					295					300				
Lys	Lys	Lys	Leu	Phe	Arg	Phe	Asp	Thr	Gln						
305					310										

<210> 2003  
 <211> 315  
 <212> PRT

<213> Mus musculus

<400> 2003

Met	Ile	Gln	Arg	Asn	Thr	Thr	Glu	Val	Thr	Asp	Phe	Tyr	Leu	Leu	Gly
1				5					10					15	
Phe	Gly	Val	Gln	Lys	Asn	Thr	Gln	Ser	Ile	Leu	Phe	Val	Val	Phe	Leu
			20					25					30		
Val	Val	Tyr	Val	Thr	Ser	Met	Val	Gly	Asn	Thr	Gly	Met	Ile	Leu	Leu
		35					40					45			
Ile	Asn	Thr	Asn	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln
	50					55					60				
Asn	Leu	Ala	Phe	Val	Asp	Ile	Cys	Tyr	Thr	Ser	Ala	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Gln	Asn	Phe	Met	Val	Glu	Asp	Ser	Ser	Ile	Ser	Tyr	Thr	Gly
				85					90					95	
Cys	Val	Ile	Gln	Leu	Leu	Val	Tyr	Ala	Thr	Phe	Ala	Thr	Ser	Asp	Cys
			100					105					110		
Tyr	Leu	Leu	Ala	Val	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115					120						125			
Pro	Leu	Arg	Tyr	Pro	Ile	Ile	Met	Ser	Arg	Gln	Val	Cys	Val	Gln	Leu
	130				135						140				
Val	Ala	Phe	Ser	Tyr	Leu	Met	Gly	Ser	Ile	Asn	Ser	Ser	Val	His	Thr
145					150					155					160
Gly	Phe	Thr	Phe	Ser	Leu	Ser	Tyr	Cys	Asn	Ser	Lys	Asn	Ile	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Val	Pro	Ile	Ile	Ser	Leu	Ser	Cys	Ser	Asn	Ile
			180					185					190		
Asp	Ile	Asn	Ile	Met	Leu	Leu	Val	Ile	Phe	Val	Gly	Phe	Asn	Leu	Thr
		195					200					205			
Phe	Thr	Val	Leu	Val	Ile	Ile	Phe	Ser	Tyr	Ile	Tyr	Ile	Met	Ala	Ala
	210					215					220				
Ile	Leu	Lys	Met	Ser	Ser	Thr	Ala	Gly	Arg	Lys	Lys	Thr	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Ile	Phe	Tyr	Gly	Thr	Leu	Ala
				245						250				255	
Tyr	Met	Tyr	Leu	Gln	Pro	His	Ser	Asp	Asn	Ser	Glu	Glu	Asn	Met	Lys
		260					265						270		
Val	Ala	Ser	Val	Phe	Tyr	Gly	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
	275					280						285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Gly	Phe	Lys	Ala	Met
	290				295						300				
Ser	Arg	Arg	Phe	Leu	Arg	Leu	Lys	Ser	Asn	Pro					
305					310					315					

<210> 2004

<211> 314

<212> PRT

<213> Mus musculus

<400> 2004

Met	Thr	Gln	Gly	Asn	Gly	Thr	Glu	Val	Thr	Asp	Phe	Tyr	Leu	Leu	Gly
1				5					10					15	
Phe	Gly	Val	Glu	Arg	Asp	Ile	Gln	Cys	Val	Leu	Phe	Ile	Val	Phe	Leu
			20					25					30		
Val	Ile	Tyr	Val	Thr	Ser	Met	Val	Gly	Asn	Thr	Gly	Met	Ile	Leu	Leu
		35					40					45			

Ile	Asn	Thr	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln
50						55					60				
His	Leu	Ala	Phe	Val	Asp	Ile	Cys	Tyr	Thr	Ser	Ala	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Gln	Asn	Phe	Met	Val	Glu	Asp	Lys	Ser	Ile	Thr	Phe	Lys	Gly
			85						90					95	
Cys	Val	Ile	Gln	Leu	Phe	Ile	Tyr	Ala	Val	Phe	Ala	Thr	Ser	Asp	Cys
			100					105						110	
Tyr	Leu	Leu	Ala	Val	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
			115					120					125		
Pro	Leu	Arg	Tyr	Pro	Ile	Ile	Met	Ser	Arg	Gln	Val	Cys	Val	Gln	Leu
						135						140			
Val	Ala	Val	Ser	Tyr	Leu	Met	Gly	Ser	Ile	Asn	Ser	Ser	Val	His	Thr
145					150					155					160
Gly	Phe	Thr	Phe	Ser	Leu	Ser	Phe	Cys	Ala	Ser	Lys	Ile	Asn	His	Phe
				165					170					175	
Phe	Cys	Asp	Ile	Pro	Pro	Ile	Val	Thr	Leu	Ser	Cys	Tyr	Asn	Asn	Asp
				180					185					190	
Ile	Asn	Phe	Met	Leu	Ile	Leu	Ile	Phe	Val	Gly	Phe	Asn	Leu	Thr	Phe
			195					200					205		
Thr	Val	Ser	Val	Val	Ile	Leu	Ser	Tyr	Ile	Tyr	Ile	Met	Ala	Ala	Ile
			210			215						220			
Leu	Lys	Met	Ser	Ser	Thr	Ala	Gly	Arg	Lys	Lys	Thr	Phe	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Ile	Phe	Tyr	Gly	Thr	Leu	Ala	Tyr
				245					250					255	
Met	Tyr	Leu	Gln	Pro	Pro	Ser	Asp	Asn	Ser	Glu	Glu	Asn	Met	Lys	Val
			260					265					270		
Ala	Ser	Val	Phe	Tyr	Gly	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
			275					280					285		
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Ile	Lys	Ala	Thr	Gly
			290			295					300				
Lys	Lys	Phe	Leu	Lys	Leu	Asp	Leu	Asn	Tyr						
305					310										

<210> 2005  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2005

Met	Glu	Arg	Ile	Asn	Tyr	Thr	Val	Leu	Thr	Glu	Phe	Ile	Leu	Thr	Gly
1				5					10					15	
Val	Pro	His	Pro	Pro	Arg	Leu	Arg	Thr	Phe	Leu	Phe	Val	Phe	Phe	Leu
			20					25					30		
Leu	Ile	Tyr	Ile	Leu	Thr	Gln	Leu	Gly	Asn	Ala	Leu	Ile	Leu	Ile	Thr
		35				40						45			
Val	Cys	Ala	Asp	Thr	Gln	Leu	His	Ala	Arg	Pro	Met	Tyr	Ile	Phe	Leu
		50				55					60				
Gly	Ala	Leu	Ser	Val	Ile	Asp	Met	Gly	Ile	Ser	Thr	Ile	Ile	Val	Pro
65					70					75					80
Arg	Leu	Met	Met	Asn	Phe	Thr	Pro	Gly	Ile	Lys	Pro	Ile	Pro	Phe	Gly
				85					90					95	
Gly	Cys	Val	Ala	Gln	Leu	Tyr	Phe	Tyr	His	Phe	Leu	Gly	Ser	Ser	Gln
			100					105					110		
Cys	Phe	Leu	Tyr	Thr	Thr	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys



	115		120		125										
Gln	Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Ser	Ala	Lys	Leu	Ser	Ile	Leu
	130					135					140				
Leu	Val	Ala	Gly	Ala	Trp	Val	Ala	Gly	Ser	Ile	His	Gly	Ala	Ile	Gln
145					150					155					160
Ala	Ile	Leu	Thr	Phe	Arg	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Gln	Val	Asp
			165						170					175	
Tyr	Phe	Phe	Cys	Asp	Ile	Pro	Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp
		180						185					190		
Thr	Thr	Val	Asn	Glu	Leu	Val	Thr	Phe	Val	Asp	Ile	Gly	Val	Val	Val
	195						200					205			
Ala	Ser	Cys	Phe	Ser	Leu	Ile	Leu	Leu	Ser	Tyr	Ile	Tyr	Ile	Ile	Arg
	210					215					220				
Ala	Ile	Leu	Arg	Ile	Arg	Thr	Ala	Asp	Gly	Arg	Arg	Arg	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Gly	Ala	His	Val	Thr	Ile	Val	Thr	Val	Tyr	Tyr	Val	Pro	Cys
				245					250					255	
Ala	Phe	Ile	Tyr	Leu	Arg	Pro	Asp	Ser	His	Ser	Ile	Leu	Asp	Gly	Ala
		260						265					270		
Ala	Ala	Leu	Phe	Pro	Thr	Ala	Ile	Thr	Pro	Phe	Leu	Asn	Pro	Leu	Ile
	275						280					285			
Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Val	Lys	Leu	Ala	Leu	Arg	Arg	Met	Val
	290					295					300				
Gly	Ser	Gln	Ser	Thr	Lys	Ser	Glu	Val							
305					310										

<210> 2006  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 2006

Met	Arg	Arg	Thr	Arg	Asn	Thr	Ser	Leu	Asp	Ala	Val	Val	Thr	Asp	Phe
1				5					10					15	
Leu	Leu	Leu	Gly	Leu	Ala	His	Pro	Pro	Asn	Leu	Arg	Ala	Phe	Leu	Phe
		20						25					30		
Leu	Val	Phe	Phe	Leu	Ile	Tyr	Ile	Leu	Thr	Gln	Leu	Gly	Asn	Leu	Leu
	35					40						45			
Ile	Leu	Leu	Thr	Val	Trp	Ala	Asp	Pro	Lys	Leu	His	Ala	Arg	Pro	Met
	50				55						60				
Tyr	Ile	Leu	Leu	Gly	Val	Leu	Ser	Phe	Leu	Asp	Met	Trp	Leu	Ser	Ser
65				70						75				80	
Val	Ile	Val	Pro	Arg	Leu	Ile	Leu	Asn	Phe	Thr	Pro	Ala	Ser	Lys	Ala
			85						90					95	
Ile	Pro	Phe	Gly	Gly	Cys	Val	Ala	Gln	Leu	Tyr	Phe	Phe	His	Phe	Leu
		100						105					110		
Gly	Ser	Thr	Gln	Cys	Phe	Leu	Tyr	Thr	Leu	Met	Ala	Tyr	Asp	Arg	Tyr
	115						120					125			
Leu	Ala	Ile	Cys	Gln	Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Asn	Gly	Lys
	130					135					140				
Leu	Cys	Thr	Ile	Leu	Val	Ser	Gly	Ala	Trp	Val	Ala	Gly	Ser	Ile	His
145					150					155					160
Gly	Ser	Ile	Gln	Thr	Thr	Leu	Thr	Phe	Arg	Leu	Pro	Tyr	Cys	Gly	Pro
			165					170						175	
Asn	Gln	Ile	Asp	Tyr	Phe	Ile	Cys	Asp	Ile	Pro	Ala	Val	Leu	Arg	Leu
	180							185					190		

Ala	Cys	Ala	Asp	Thr	Thr	Val	Asn	Glu	Leu	Val	Thr	Phe	Val	Asp	Ile
		195					200					205			
Gly	Val	Val	Ala	Ala	Ser	Cys	Phe	Met	Leu	Ile	Leu	Leu	Ser	Tyr	Ala
	210					215					220				
Asn	Ile	Val	His	Ala	Ile	Leu	Lys	Ile	Arg	Thr	Ala	Asp	Gly	Arg	Lys
225					230					235					240
Arg	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Thr	Val	Tyr
				245					250					255	
Tyr	Val	Pro	Cys	Ile	Phe	Ile	Tyr	Leu	Arg	Ala	Gly	Ser	Lys	Ser	Pro
			260					265					270		
Phe	Asp	Gly	Ala	Val	Ala	Val	Phe	Tyr	Thr	Val	Val	Thr	Pro	Leu	Leu
		275						280				285			
Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Val	Lys	Ser	Ala	Leu
	290					295					300				
Lys	Arg	Leu	Thr	Ala	Gly	Arg	Arg	Asp	Val	Gly	Gly	Glu	Lys		
305					310					315					

<210> 2007

<211> 311

<212> PRT

<213> Mus musculus

<400> 2007

Met	Lys	Thr	Leu	Ser	Ser	Pro	Ser	Asn	Ser	Ser	Thr	Ile	Thr	Gly	Phe
1				5				10						15	
Ile	Leu	Leu	Gly	Phe	Pro	Cys	Pro	Arg	Glu	Gly	Gln	Ile	Leu	Leu	Phe
			20					25					30		
Val	Thr	Phe	Phe	Ile	Val	Tyr	Ile	Leu	Ile	Leu	Met	Gly	Asn	Ala	Ser
		35					40					45			
Ile	Ile	Cys	Ala	Val	Tyr	Cys	Asp	Gln	Arg	Leu	His	Thr	Pro	Met	Tyr
	50					55					60				
Phe	Leu	Leu	Ala	Asn	Phe	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Thr	Ser
65				70					75						80
Thr	Val	Pro	Asn	Met	Leu	Ala	Asn	Phe	Leu	Ser	Asp	Thr	Lys	Val	Ile
				85					90					95	
Ser	Phe	Ser	Gly	Cys	Phe	Leu	Gln	Phe	Tyr	Phe	Phe	Phe	Ser	Phe	Gly
			100					105					110		
Ser	Thr	Glu	Cys	Phe	Phe	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Leu
		115					120					125			
Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Ser	Leu	Met	Thr	Gly	His	Leu
	130					135					140				
Cys	Asn	Ile	Leu	Val	Ile	Ser	Cys	Trp	Val	Leu	Gly	Phe	Leu	Trp	Phe
145				150						155					160
Pro	Val	Pro	Ile	Ile	Ile	Ile	Ser	Gln	Met	Ser	Phe	Cys	Gly	Ser	Arg
				165					170					175	
Ile	Ile	Asp	His	Phe	Leu	Cys	Asp	Pro	Gly	Pro	Leu	Leu	Ala	Leu	Ala
		180						185					190		
Cys	Ser	Arg	Ala	Pro	Leu	Met	Glu	Val	Phe	Trp	Thr	Ile	Ile	Met	Ser
		195					200					205			
Met	Leu	Leu	Val	Ile	Pro	Phe	Leu	Phe	Ile	Met	Gly	Thr	Tyr	Ile	Leu
	210					215					220				
Val	Leu	Arg	Ala	Val	Phe	Arg	Leu	Pro	Ser	Arg	Asp	Gly	Gln	Lys	Lys
225					230					235					240
Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr
				245					250					255	
Cys	Ser	Val	Met	Lys	Met	Tyr	Leu	Ser	Pro	Thr	Ser	Glu	His	Glu	Ala

			260					265				270				
Gly	Met	Gln	Lys	Leu	Val	Thr	Leu	Phe	Tyr	Ser	Val	Gly	Thr	Pro	Leu	
		275					280					285				
Leu	Asn	Pro	Val	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Asn	Ala	
	290					295					300					
Leu	Gln	Lys	Ile	Leu	Arg	Thr										
305					310											

<210> 2008  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 2008

Met	Gln	Val	Thr	Thr	Glu	Arg	Gln	Asn	Val	Ser	Phe	Pro	Asp	Thr	Phe	
1				5					10					15		
Val	Leu	Val	Gly	Phe	Ser	Asp	His	Pro	Trp	Leu	Glu	Met	Pro	Leu	Phe	
		20					25						30			
Gly	Val	Leu	Leu	Ile	Ser	Tyr	Ile	Phe	Thr	Met	Ile	Gly	Asn	Ser	Ser	
	35					40					45					
Ile	Ile	Val	Leu	Ser	Leu	Val	Glu	Pro	Arg	Leu	Gln	Thr	Pro	Met	Tyr	
	50				55					60						
Phe	Phe	Leu	Asp	Asn	Leu	Ser	Leu	Leu	Asp	Leu	Cys	Val	Thr	Cys	Thr	
65				70					75						80	
Ile	Val	Pro	Gln	Leu	Val	Asn	Leu	Trp	Gly	Pro	Glu	Lys	Thr	Ile		
		85				90						95				
Ala	Ser	Trp	Ser	Cys	Ile	Ala	Gln	Ala	Tyr	Leu	Phe	His	Trp	Thr	Ser	
		100				105						110				
Cys	Thr	Glu	Ser	Ala	Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Val	
	115					120					125					
Ala	Ile	Cys	Cys	Pro	Leu	Arg	Tyr	Val	Leu	Ile	Met	His	Leu	Trp	Ala	
	130					135					140					
Cys	Val	Trp	Leu	Ala	Ala	Val	Cys	Trp	Ala	Ser	Gly	Leu	Ala	Asn	Ser	
145				150					155						160	
Leu	Val	Gln	Ala	Thr	Leu	Thr	Leu	Tyr	Leu	Thr	Leu	Cys	Ala	Lys	Asn	
		165				170						175				
Thr	Leu	Asp	His	Phe	Phe	Cys	Glu	Val	Pro	Ala	Leu	Ile	Lys	Leu	Ala	
	180					185						190				
Cys	Ser	Asp	Thr	Thr	Thr	Asn	Asp	Leu	Ser	Leu	Ala	Leu	Gly	Ala	Ile	
	195					200					205					
Pro	Phe	Gly	Ile	Val	Ser	Pro	Leu	Thr	Val	Leu	Ile	Ser	Tyr	Ile	Phe	
	210				215						220					
Ile	Ala	Arg	Ala	Val	Leu	Lys	Leu	Pro	Ser	Ala	Glu	Gly	Arg	Arg	Lys	
225				230					235						240	
Ala	Leu	Ser	Thr	Cys	Thr	Ser	His	Leu	Leu	Val	Val	Thr	Met	Tyr	Phe	
		245				250						255				
Gly	Pro	Gly	Met	Tyr	Thr	Tyr	Leu	Gln	Pro	Pro	Gly	Asn	Asn	Thr	Gln	
	260					265					270					
Ser	Glu	Phe	Leu	Ser	Leu	Phe	Tyr	Cys	Val	Phe	Thr	Pro	Leu	Leu	Asn	
	275					280					285					
Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Trp	Lys	
	290				295						300					
Lys	Val	Leu	Thr	Ser	Gln	Ser	Lys	Gly	Ile	Ser	Leu	Lys	Gly	Gln		
305					310					315						

<210> 2009  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2009  
 Met Glu Arg Thr Asn Val Ser His Glu Met Glu Phe Glu Leu Leu Gly  
 1 5 10 15  
 Leu Thr Ser Asp Pro Gln Leu Gln Lys Leu Leu Phe Val Val Phe Leu  
 20 25 30  
 Val Met Tyr Ala Ile Thr Val Leu Gly Asn Leu Val Met Phe Phe Leu  
 35 40 45  
 Ile His Val Ser Thr Thr Leu His Thr Pro Met Tyr Ser Leu Leu Lys  
 50 55 60  
 Ser Leu Ser Leu Leu Asp Phe Cys Tyr Ser Ser Thr Val Val Pro Gln  
 65 70 75 80  
 Thr Leu Ile Asn Phe Leu Val Glu Arg Lys Val Ile Ser Tyr Phe Gly  
 85 90 95  
 Cys Met Ala Gln Met Phe Phe Phe Ala Gly Phe Ala Thr Ser Glu Cys  
 100 105 110  
 Tyr Leu Ile Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Ser  
 115 120 125  
 Pro Leu Leu Tyr Pro Thr Ile Val Ser Pro Asn Val Cys Ala Ser Leu  
 130 135 140  
 Ile Gly Gly Ser Tyr Gly Ala Gly Phe Leu Asn Ser Leu Ile His Thr  
 145 150 155 160  
 Ser Cys Ile Phe Ser Leu Asn Phe Cys Gly Ala His Val Val Thr His  
 165 170 175  
 Phe Phe Cys Asp Gly Pro Pro Ile Leu Ser Leu Ser Cys Val Asp Thr  
 180 185 190  
 Ser Leu Cys Glu Ile Leu Leu Phe Ile Phe Ala Gly Phe Asn Leu Leu  
 195 200 205  
 Ser Cys Thr Leu Thr Ile Leu Ile Ser Tyr Leu Leu Ile Phe Ile Ala  
 210 215 220  
 Ile Leu Gln Ile Arg Ser Asn Gln Gly Arg Phe Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ser His Leu Thr Ala Val Cys Phe Phe Phe Gly Thr Thr Leu  
 245 250 255  
 Phe Met Tyr Leu Arg Pro Lys Ser Ser Tyr Ser Leu Thr Gln Asp Arg  
 260 265 270  
 Thr Val Ala Val Ile Tyr Thr Ala Val Ile Pro Met Leu Asn Pro Leu  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Leu Arg Lys Val  
 290 295 300  
 Trp Gly Trp Lys Ser Met Gly  
 305 310

<210> 2010  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2010  
 Met Thr Asp Thr Ile Thr Asn Thr Thr Glu Tyr Met Glu Phe Leu Leu  
 1 5 10 15  
 Met Gly Tyr Pro Asp Glu Gln Val Leu Gln Thr Leu Cys Ala Thr Leu



Tyr	Leu	Gly	Cys	Thr	Ile	Gln	Leu	Phe	Ser	Gly	Ala	Phe	Phe	Gly	Thr
			100					105					110		
Leu	Glu	Cys	Phe	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg	Phe	Ile	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Val	Cys
	130					135					140				
Ile	Gln	Leu	Leu	Val	Gly	Ser	Tyr	Ile	Gly	Gly	Phe	Leu	Asn	Ala	Ser
145					150					155					160
Ser	Phe	Leu	Leu	Ser	Phe	Phe	Pro	Leu	Leu	Phe	Cys	Gly	Pro	Asn	Arg
			165						170					175	
Val	Asn	His	Phe	Phe	Cys	Asp	Leu	Ala	Pro	Leu	Ile	Glu	Leu	Ser	Cys
			180					185					190		
Ser	Gly	Ser	Asn	Val	Pro	Ile	Val	Pro	Ala	Ser	Phe	Cys	Ser	Ala	Phe
	195						200					205			
Val	Ile	Ile	Val	Thr	Val	Phe	Val	Ile	Ala	Ile	Ser	Tyr	Thr	Tyr	Ile
	210					215					220				
Leu	Ile	Thr	Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	Gln	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly
			245						250					255	
Thr	Ile	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Phe	Ser	Thr	Asp
		260					265						270		
Gln	Asn	Lys	Val	Val	Ser	Val	Phe	Tyr	Met	Val	Val	Ile	Pro	Met	Leu
	275						280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Leu
	290					295					300				
Lys	Arg	Gln	Leu	Ala	Arg	Lys	Ile	Phe	Ser						
305					310										

<210> 2012  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2012

Met	Ala	Phe	Leu	Glu	Asp	Gly	Asn	His	Thr	Ala	Val	Thr	Glu	Phe	Val
1			5						10					15	
Leu	Phe	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Val	Ile	Leu	Phe	Ile
		20					25					30			
Ile	Phe	Leu	Cys	Ile	Tyr	Leu	Val	Asn	Val	Ser	Gly	Asn	Leu	Ser	Thr
	35					40						45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe	
	50				55				60						
Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Val	Gly	Tyr	Ser	Ser	Thr	Val
65				70					75					80	
Thr	Pro	Lys	Met	Leu	Ala	Asn	Phe	Leu	Leu	Glu	Arg	Ser	Thr	Ile	Ser
		85						90					95		
Tyr	Leu	Gly	Cys	Thr	Ile	Gln	Leu	Phe	Ser	Gly	Ala	Phe	Val	Gly	Thr
	100						105					110			
Leu	Glu	Cys	Phe	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg	Phe	Ile	Ala
	115						120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Val	Cys
	130					135					140				
Ile	Gln	Leu	Leu	Val	Gly	Ser	Tyr	Ile	Gly	Gly	Phe	Leu	Asn	Ala	Ser
145				150						155					160
Ser	Phe	Leu	Leu	Ser	Phe	Phe	Pro	Leu	Leu	Phe	Cys	Gly	Pro	Asn	Arg

				165					170				175			
Val	Asn	His	Tyr	Ser	Cys	Asp	Leu	Thr	Pro	Leu	Ile	Glu	Leu	Ser	Cys	
			180					185					190			
Ser	Gly	Ser	Asn	Val	Pro	Ile	Val	Pro	Ala	Ser	Phe	Cys	Ser	Ala	Phe	
		195					200					205				
Val	Ile	Ile	Val	Thr	Val	Ser	Val	Ile	Ala	Ile	Ser	Tyr	Thr	Tyr	Ile	
	210					215					220					
Leu	Ile	Thr	Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu	Gly	Arg	Gln	Lys	Ala	
225					230					235					240	
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Gly	
				245					250					255		
Thr	Val	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Thr	Asp	
		260					265						270			
Gln	Asn	Lys	Val	Val	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	
	275						280					285				
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Leu	
	290					295					300					
Lys	Arg	Gln	Leu	Ala	Arg	Lys	Ile	Phe	Ser							
305					310											

<210> 2013  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2013

Met	Met	Leu	Gly	Arg	Met	Ala	Phe	Ser	Asn	Asp	Ser	Ser	Val	Lys	Glu	
1				5					10					15		
Phe	Ile	Leu	Leu	Gly	Leu	Thr	Gln	Gln	Pro	Glu	Leu	Gln	Met	Pro	Leu	
		20					25					30				
Phe	Phe	Leu	Phe	Leu	Gly	Ile	Tyr	Val	Val	Ser	Met	Val	Gly	Asn	Leu	
	35				40						45					
Gly	Leu	Ile	Val	Leu	Ile	Val	Leu	Asn	Pro	His	Leu	His	Thr	Pro	Met	
	50				55						60					
Tyr	Tyr	Phe	Leu	Phe	Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	
65					70				75					80		
Val	Ile	Thr	Pro	Arg	Met	Leu	Val	Gly	Phe	Val	Lys	Gln	Asn	Ile	Ile	
			85					90					95			
Ser	His	Ala	Glu	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val	
		100					105						110			
Ile	Asp	Glu	Cys	Tyr	Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	
	115					120					125					
Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Gln	Val	
	130				135						140					
Cys	His	Leu	Met	Met	Val	Gly	Val	Tyr	Val	Met	Gly	Leu	Val	Gly	Ala	
145				150					155					160		
Met	Ala	His	Thr	Gly	Ser	Met	Leu	Ser	Leu	Thr	Phe	Cys	Asp	Gly	Asn	
			165					170					175			
Ile	Ile	Asn	His	Tyr	Met	Cys	Asp	Ile	Pro	Pro	Leu	Gln	Lys	Leu	Ser	
		180					185					190				
Cys	Thr	Ser	Thr	Ser	Ile	Asn	Glu	Leu	Val	Val	Phe	Ile	Val	Val	Gly	
	195					200					205					
Val	Asn	Val	Ile	Ile	Pro	Ser	Leu	Thr	Val	Phe	Ile	Ser	Tyr	Thr	Leu	
	210				215						220					
Ile	Leu	Ser	Asn	Ile	Leu	Ser	Ile	Gln	Ser	Ala	Glu	Gly	Arg	Ser	Lys	
225				230					235						240	





305

<210> 2015  
<211> 309  
<212> PRT  
<213> Mus musculus

<400> 2015

```
Met Val Leu Glu Asn Ser Ser Ser Val Lys Glu Phe Ile Leu Leu Gly
 1          5          10          15
Leu Thr Gln Gln Pro Glu Leu Gln Met Pro Leu Phe Phe Leu Phe Leu
      20          25          30
Gly Ile Tyr Ile Val Ser Met Val Gly Asn Leu Gly Leu Thr Val Leu
      35          40          45
Ile Val Leu Asn Pro His Leu His Asn Pro Met Tyr Tyr Phe Leu Phe
      50          55          60
Asn Leu Ser Phe Thr Asp Leu Cys Tyr Ser Thr Val Ile Thr Pro Arg
      65          70          75          80
Met Leu Val Gly Phe Val Lys Gln Asn Thr Ile Ser His Ala Glu Cys
      85          90          95
Met Thr Gln His Phe Phe Phe Cys Phe Phe Val Ile Asp Glu Cys Tyr
      100          105          110
Ile Leu Thr Ala Val Ala Tyr Asp Arg Tyr Ala Ala Ile Cys Lys Pro
      115          120          125
Leu Leu Tyr Gln Val Thr Met Ser His Gln Val Cys Leu Leu Met Thr
      130          135          140
Val Gly Val Tyr Val Met Gly Phe Leu Glu Ala Ile Ala His Thr Gly
      145          150          155          160
Ser Met Val Ser Leu Thr Phe Cys Asp Gly Asn Ile Ile Asn His Tyr
      165          170          175
Ala Cys Asp Ile Leu Pro Leu Leu Lys Leu Ser Cys Thr Ser Thr Thr
      180          185          190
Ile Asn Glu Leu Val Val Phe Ile Val Val Gly Val Asn Val Ile Val
      195          200          205
Pro Thr Leu Thr Ile Phe Ile Ser Tyr Thr Leu Ile Leu Ser Asn Ile
      210          215          220
Leu Ser Ile His Ser Ala Glu Gly Arg Ser Lys Ala Phe Ser Thr Cys
      225          230          235          240
Gly Ser His Val Ile Ala Val Ser Leu Phe Phe Gly Ala Ala Ala Phe
      245          250          255
Met Tyr Leu Lys Pro Ser Ser Ala Ser Glu Asp Asp Asp Lys Val Ser
      260          265          270
Thr Ile Phe Tyr Thr Ile Val Gly Pro Met Leu Asn Pro Phe Ile Tyr
      275          280          285
Ser Leu Arg Asn Lys Asp Val Tyr Leu Ala Leu Arg Lys Thr Leu Met
      290          295          300
Lys Arg Ser Phe Thr
305
```

<210> 2016  
<211> 314  
<212> PRT  
<213> Mus musculus

<400> 2016

Met	Asn	Trp	Gly	Arg	Met	Ala	Leu	Gly	Asn	Asp	Ser	Ser	Val	Lys	Glu
1				5					10					15	
Phe	Ile	Leu	Leu	Gly	Leu	Thr	Gln	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Leu
		20						25					30		
Phe	Phe	Phe	Phe	Leu	Gly	Val	Tyr	Ile	Phe	Ser	Val	Val	Gly	Asn	Leu
	35					40					45				
Gly	Leu	Ile	Val	Leu	Ile	Val	Leu	Asn	Pro	His	Leu	Gln	Thr	Pro	Met
	50				55						60				
Tyr	Tyr	Phe	Leu	Phe	Asn	Leu	Ser	Phe	Thr	Asp	Leu	Cys	Tyr	Ser	Ser
65					70					75					80
Val	Ile	Thr	Pro	Lys	Met	Leu	Val	Ser	Phe	Val	Lys	Gln	Asn	Ile	Ile
				85					90					95	
Ser	His	Ala	Glu	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val
		100						105					110		
Ile	Asp	Glu	Cys	Tyr	Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala
	115						120					125			
Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Arg	Val
	130					135					140				
Cys	Leu	Leu	Met	Thr	Val	Gly	Val	Tyr	Val	Met	Gly	Phe	Val	Glu	Ala
145					150					155					160
Met	Ala	His	Thr	Ala	Ser	Met	Val	His	Leu	Ile	Phe	Cys	Asp	Ser	Asn
				165					170					175	
Ile	Ile	Asn	His	Tyr	Met	Cys	Glu	Ile	Asn	Ala	Leu	Leu	Lys	Leu	Ser
		180						185					190		
Cys	Thr	Ser	Thr	Ser	Ile	Asn	Glu	Leu	Val	Val	Tyr	Ile	Val	Val	Gly
	195					200						205			
Phe	Asn	Val	Ile	Val	Pro	Thr	Leu	Thr	Ile	Phe	Ile	Thr	Tyr	Thr	Leu
	210					215					220				
Ile	Leu	Phe	Asn	Ile	Leu	Ser	Ile	His	Ser	Ala	Glu	Gly	Arg	Ser	Lys
225					230					235					240
Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Met	Ile	Ala	Val	Ser	Leu	Phe	Phe
				245					250					255	
Gly	Ala	Ala	Ala	Phe	Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Ser	Glu	Asp
			260					265					270		
Glu	Asp	Lys	Val	Ser	Thr	Ile	Phe	Tyr	Thr	Ile	Met	Gly	Pro	Met	Leu
	275					280					285				
Asn	Pro	Phe	Ile	Tyr	Ser	Ile	Arg	Asn	Lys	Asp	Val	His	Ile	Ala	Leu
	290					295					300				
Lys	Lys	Thr	Leu	Lys	Arg	Ser	Ile	Phe	Ile						
305					310										

<210> 2017

<211> 311

<212> PRT

<213> Mus musculus

<400> 2017

Met	Ala	Ala	Ala	Asn	Thr	Ser	Ser	Val	Ala	Glu	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Leu	Thr	Asp	Gln	Pro	Gln	Leu	Gln	Ile	Pro	Leu	Phe	Phe	Leu	Phe	Leu
		20						25					30		
Gly	Phe	Tyr	Ile	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Thr	Leu
	35					40					45				
Ile	Gly	Leu	Asn	Ser	His	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Phe
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Phe	Ser	Tyr	Ser	Thr	Thr	Leu	Thr	Pro	Lys

65					70					75				80
Met	Leu	Val	Gly	Phe	Val	Leu	Arg	Lys	Asn	Ile	Ile	Ser	Tyr	Ala
				85					90					95
Cys	Met	Thr	Gln	Phe	Phe	Phe	Phe	Cys	Phe	Phe	Val	Phe	Ser	Glu
			100					105					110	
Tyr	Ile	Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125		Lys
Pro	Leu	Leu	Tyr	Ser	Val	Thr	Met	Ser	Pro	Gln	Val	Cys	Ser	Tyr
	130					135					140			Leu
Leu	Ser	Gly	Val	Tyr	Gly	Met	Gly	Val	Phe	Gly	Ala	Val	Ala	His
145					150					155				160
Gly	Asn	Leu	Gln	Phe	Ile	Ser	Phe	Cys	Ala	Asp	Asn	Ile	Ile	Asn
				165					170					175
Tyr	Met	Cys	Asp	Ile	Ile	Pro	Leu	Leu	Glu	Leu	Ser	Cys	Asn	Ser
			180					185					190	
Tyr	Ile	Asn	Leu	Leu	Val	Val	Phe	Ile	Val	Val	Thr	Ile	Gly	Ile
		195					200					205		Gly
Val	Pro	Ile	Val	Thr	Ile	Phe	Ile	Ser	Tyr	Gly	Phe	Ile	Leu	Ser
	210					215					220			Ser
Ile	Leu	His	Ile	Ser	Ser	Lys	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser
225					230					235				240
Cys	Thr	Ser	His	Ile	Ile	Val	Val	Ser	Leu	Phe	Phe	Gly	Ser	Gly
			245						250					255
Phe	Met	Tyr	Leu	Lys	Pro	Pro	Ser	Ser	Leu	Pro	Leu	Asp	Gln	Gly
		260					265					270		Lys
Val	Ser	Ser	Val	Phe	Tyr	Thr	Ala	Val	Val	Pro	Met	Phe	Asn	Pro
		275					280					285		Leu
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ile	Ala	Leu	Lys	Lys
	290					295					300			Thr
Leu	Ser	Arg	Lys	Asn	Phe	Ser								
305					310									

<210> 2018  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2018

Met	Asp	Val	Tyr	Asn	Leu	Thr	Thr	Val	Thr	Gln	Phe	Ile	Leu	Ile	Gly
1				5					10					15	
Leu	Ser	Asp	Leu	Pro	Glu	Val	Arg	Tyr	Pro	Leu	Phe	Val	Ala	Phe	Val
			20					25					30		
Ile	Ile	Tyr	Gln	Ile	Thr	Leu	Leu	Gly	Asn	Gly	Leu	Ile	Leu	Leu	Ala
		35				40						45			
Ile	Val	Thr	Glu	Lys	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Tyr	Leu	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Leu	Leu	Asp	Ile	Phe	Cys	Pro	Ser	Ala	Thr	Val	Pro	Lys
65					70					75					80
Met	Leu	Lys	Asn	Leu	Leu	Thr	Glu	Asp	His	Ser	Ile	Ser	Phe	Val	Gly
			85					90						95	
Cys	Ala	Leu	Gln	Leu	Tyr	Phe	Leu	Val	Ala	Leu	Ala	Gly	Thr	Glu	Val
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
		115					120					125			
Pro	Leu	Arg	Tyr	Ser	Leu	Ile	Met	Thr	Lys	Val	Arg	Cys	Val	Gln	Leu
	130					135					140				

Leu	Phe	Gly	Thr	Trp	Ala	Ala	Gly	Phe	Leu	Asn	Ser	Phe	Val	His	Thr
145					150					155					160
Met	Ser	Thr	Phe	Ser	Leu	Ser	Phe	Cys	Lys	Ser	Asn	Arg	Val	Asn	Gln
				165					170						175
Tyr	Tyr	Cys	Asp	Ile	Pro	Pro	Val	Val	Ala	Leu	Ser	Cys	Ser	Ser	Thr
			180					185					190		
Tyr	Met	Ala	Glu	Met	Leu	Val	Leu	Val	Ile	Gly	Gly	Ile	Cys	Gly	Val
	195						200					205			
Gly	Ala	Phe	Leu	Ile	Thr	Leu	Ile	Ser	Tyr	Ile	Tyr	Ile	Val	Ser	Thr
	210					215					220				
Ile	Leu	Lys	Ile	Arg	Ser	Ala	Glu	Gly	Lys	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Leu	Val	Val	Phe	Leu	Phe	Tyr	Gly	Thr	Thr	Ile
				245					250						255
Phe	Thr	Tyr	Ile	Arg	Pro	Thr	Ser	Ser	Gln	His	Ser	Pro	Gly	Arg	Asp
			260					265					270		
Arg	Leu	Ile	Ser	Met	Leu	Tyr	Gly	Val	Ile	Thr	Pro	Met	Leu	Asn	Pro
	275						280					285			
Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Thr	Glu	Val	Lys	Gly	Ala	Leu	Arg	Lys
	290					295					300				
Val	Leu	His	Leu	Arg	Ile	Cys	Ser	Gln	Arg	Glu					
305					310					315					

<210> 2019

<211> 317

<212> PRT

<213> Mus musculus

<400> 2019

Met	Glu	Met	Asp	Val	Tyr	Asn	Leu	Thr	Thr	Val	Thr	Gln	Phe	Ile	Leu
1				5					10					15	
Ile	Gly	Leu	Ser	Asp	Leu	Pro	Glu	Val	Arg	Tyr	Pro	Leu	Phe	Val	Ala
			20					25					30		
Phe	Val	Ile	Ile	Tyr	Gln	Ile	Thr	Leu	Leu	Gly	Asn	Gly	Leu	Ile	Leu
		35					40					45			
Leu	Ala	Ile	Val	Thr	Glu	Lys	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Tyr	Leu
	50					55					60				
Leu	Ala	Asn	Leu	Ser	Leu	Leu	Asp	Ile	Phe	Cys	Pro	Ser	Ala	Thr	Val
65					70					75					80
Pro	Lys	Met	Leu	Lys	Asn	Leu	Leu	Thr	Glu	Asp	His	Ser	Ile	Ser	Phe
				85					90					95	
Val	Gly	Cys	Ala	Leu	Gln	Leu	Tyr	Phe	Leu	Val	Ala	Leu	Ala	Gly	Thr
			100					105					110		
Glu	Val	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Phe	Pro	Leu	Arg	Tyr	Ser	Leu	Ile	Met	Thr	Lys	Val	Arg	Cys	Val
	130					135					140				
Gln	Leu	Leu	Phe	Gly	Thr	Trp	Ala	Ala	Gly	Phe	Leu	Asn	Ser	Phe	Val
145					150					155					160
His	Thr	Met	Ser	Thr	Phe	Ser	Leu	Ser	Phe	Cys	Lys	Ser	Asn	Arg	Val
				165					170					175	
Asn	Gln	Tyr	Tyr	Cys	Asp	Ile	Pro	Pro	Val	Val	Ala	Leu	Ser	Cys	Ser
			180					185					190		
Ser	Thr	Tyr	Met	Ala	Glu	Val	Leu	Leu	Leu	Val	Ile	Ala	Ser	Ile	Phe
		195					200					205			
Gly	Val	Gly	Ala	Phe	Leu	Ile	Thr	Leu	Ile	Ser	Tyr	Ile	Tyr	Ile	Val

210		215		220
Ser Thr Ile Leu Lys Ile Arg Ser Ala Glu Gly Lys Arg Lys Ala Phe				
225		230		240
Ser Thr Cys Ala Ser His Leu Leu Val Val Phe Leu Phe Tyr Gly Thr				
	245		250	255
Thr Ile Phe Thr Tyr Met Arg Pro Thr Ser Ser Gln His Ser Pro Gly				
	260		265	270
Arg Asp Arg Leu Ile Ser Met Leu Tyr Gly Val Ile Thr Pro Met Leu				
	275		280	285
Asn Pro Ile Ile Tyr Ser Leu Arg Asn Thr Glu Val Lys Gly Ala Leu				
	290		295	300
Arg Lys Val Leu His Leu Arg Ile Cys Ser Gln Thr Ala				
305		310		315

<210> 2020  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2020

Met Ile Gly Glu Arg Asn Ile Thr Thr Ile Thr Gln Phe Ile Leu Leu				
1	5		10	15
Gly Phe Ser Asp Phe Pro Arg Ile Thr Val Leu Leu Phe Val Ile Phe				
	20		25	30
Leu Met Ile Tyr Ile Met Thr Met Thr Trp Asn Leu Ser Leu Ile Ala				
	35		40	45
Leu Ile Arg Met Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu				
	50		55	60
Ser Asn Leu Ser Phe Ile Asp Leu Cys Phe Val Thr Ser Thr Ala Pro				
65	70		75	80
Lys Met Leu Ser Asn Phe Phe Gln Glu Asn Gln Thr Ile Ser Phe Val				
	85		90	95
Gly Cys Ile Val Gln Tyr Phe Ile Leu Ser Thr Met Gly Leu Thr Glu				
	100		105	110
Cys Cys Leu Met Thr Ala Met Ala Tyr Asp Arg Tyr Ala Ala Ile Cys				
	115		120	125
Asn Pro Leu Leu Tyr Ser Ser Val Met Ser Pro Thr Leu Cys Ala Gln				
	130		135	140
Met Val Met Gly Ser Tyr Thr Ala Gly Leu Thr Gly Ser Val Ser Gln				
145	150		155	160
Ile Cys Ala Leu Leu Gln Leu Tyr Phe Cys Gly Pro Asn Val Ile Arg				
	165		170	175
His Phe Phe Cys Asp Ile Ser Gln Leu Leu Asn Leu Ser Cys Ser Asp				
	180		185	190
Ala Phe Phe Val Gln Val Leu Leu Ala Ile Leu Thr Met Cys Phe Gly				
	195		200	205
Ile Ala Asn Ala Leu Ala Thr Met Leu Ser Tyr Gly Phe Ile Val Leu				
	210		215	220
Ser Ile Leu Lys Ile Thr Ser Ala Lys Gly Arg Ser Lys Ala Phe Asn				
225	230		235	240
Thr Cys Ala Ser His Leu Thr Ala Val Ser Leu Phe Tyr Ser Thr Gly				
	245		250	255
Ile Phe Val Tyr Leu Arg Ser Ser Ser Gly Ser Ser Ser Ser Phe Asp				
	260		265	270
Arg Phe Thr Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro				
	275		280	285

Leu Ile Tyr Ser Leu Arg Asn Lys Glu Ile Lys Asp Ala Met Lys Arg  
 290 295 300  
 Leu Gln Lys Lys Lys Ile Cys Asn  
 305 310

<210> 2021  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2021  
 Met Glu Pro Gly Asn Leu Thr Trp Val Ser Glu Phe Ile Phe Leu Gly  
 1 5 10 15  
 Phe Ser Glu Ile Trp Glu Leu Gln Val Phe Leu Phe Val Val Phe Leu  
 20 25 30  
 Cys Val Tyr Ser Thr Thr Val Val Gly Asn Leu Leu Ile Ile Val Thr  
 35 40 45  
 Val Ser Ser Asp Pro Arg Leu His Thr Pro Met Tyr Phe Leu Leu Arg  
 50 55 60  
 Asn Leu Ala Val Leu Asp Leu Cys Phe Ser Ser Val Thr Ala Pro Lys  
 65 70 75 80  
 Met Leu Val Asp Phe Leu Ser Glu Lys Lys Thr Ile Ser Tyr Arg Gly  
 85 90 95  
 Cys Met Val Gln Ile Phe Phe Phe His Phe Leu Gly Gly Ala Met Val  
 100 105 110  
 Phe Phe Leu Ser Val Met Ala Tyr Asp Arg Leu Val Ala Ile Ser Arg  
 115 120 125  
 Pro Leu His Tyr Val Thr Ile Met Asn Ser Gln Leu Cys Met Gly Leu  
 130 135 140  
 Val Val Ala Ser Trp Val Gly Gly Phe Ala His Ser Ile Val Gln Leu  
 145 150 155 160  
 Ser Leu Met Leu Pro Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Asn  
 165 170 175  
 Phe Tyr Cys Asp Val Pro Gln Val Leu Arg Leu Ala Cys Met Asp Thr  
 180 185 190  
 Ser Leu Leu Glu Phe Leu Met Ile Ser Asn Ser Gly Met Leu Asp Val  
 195 200 205  
 Ile Trp Phe Phe Leu Leu Leu Ile Ser Tyr Leu Val Ile Leu Val Met  
 210 215 220  
 Leu Arg Ser His Ser Gly Glu Ala Arg Arg Lys Ala Ala Ser Thr Cys  
 225 230 235 240  
 Thr Thr His Ile Ile Val Val Ser Met Ile Phe Ile Pro Ser Ile Tyr  
 245 250 255  
 Leu Tyr Ala Arg Pro Phe Thr Pro Phe Thr Met Asp Lys Ala Val Ser  
 260 265 270  
 Ile Ser His Thr Val Leu Thr Pro Met Leu Asn Pro Met Ile Tyr Thr  
 275 280 285  
 Leu Arg Asn Gln Glu Met Gln Ala Ala Met Lys Arg Leu Ala Lys Arg  
 290 295 300  
 Leu Ala Leu Cys Asn Arg Glu  
 305 310

<210> 2022  
 <211> 313  
 <212> PRT

<213> Mus musculus

<400> 2022

```
Met Glu Thr Gln Asn Ile Thr Trp Val Ser Glu Phe Ile Leu Leu Gly
 1          5          10          15
Phe Ser Gln Thr Gln Glu Leu Gln Lys Leu Leu Phe Val Val Phe Leu
 20          25          30
Cys Val Tyr Ile Thr Thr Val Val Gly Asn Ile Leu Ile Met Ile Thr
 35          40          45
Val Thr Phe Asp Pro Arg Leu Asp Met Pro Met Tyr Phe Leu Leu Arg
 50          55          60
Asn Leu Ala Val Ile Asp Leu Ser Tyr Ser Thr Val Thr Ser Pro Lys
 65          70          75          80
Met Leu Val Asp Phe Phe His Lys Thr Lys Thr Ile Ser Tyr Gln Gly
 85          90          95
Cys Met Ala Gln Ile Phe Phe Phe His Leu Leu Gly Gly Gly Thr Val
100          105          110
Phe Phe Leu Ser Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Ser Arg
115          120          125
Pro Leu His Tyr Val Thr Ile Met Asn Thr Lys Leu Cys Val Gly Leu
130          135          140
Val Val Ala Ser Trp Val Gly Gly Phe Ala His Ser Ile Val Gln Leu
145          150          155          160
Ser Leu Met Leu Pro Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Asn
165          170          175
Phe Tyr Cys Asp Val Pro Gln Val Leu Arg Leu Ala Cys Thr Asp Thr
180          185          190
Ser Leu Leu Glu Phe Leu Met Ile Ser Asn Ser Gly Met Leu Val Leu
195          200          205
Ile Trp Phe Leu Leu Leu Leu Ile Ser Tyr Thr Val Ile Leu Val Met
210          215          220
Leu Arg Ser His Ser Gly Gln Ala Arg Arg Lys Ala Ala Ser Thr Cys
225          230          235          240
Thr Thr His Ile Ile Val Val Ser Met Ile Phe Ile Pro Cys Ile Tyr
245          250          255
Ile Tyr Ser Arg Pro Phe Thr Pro Phe Pro Leu Asp Lys Ala Val Ser
260          265          270
Ile Ser Tyr Thr Val Leu Thr Pro Met Leu Asn Pro Met Ile Tyr Thr
275          280          285
Leu Arg Asn Gln Glu Met Gln Ala Ala Met Lys Arg Leu Ala Glu His
290          295          300
Leu Val Leu Thr Lys Arg Asn Glu Leu
305          310
```

<210> 2023

<211> 311

<212> PRT

<213> Mus musculus

<400> 2023

```
Met Gln Pro Gly Asn Leu Thr Trp Val Ser Glu Phe Val Phe Leu Gly
 1          5          10          15
Phe Ser Glu Ile Trp Glu Leu Gln Val Phe Leu Phe Val Val Phe Leu
 20          25          30
Cys Val Tyr Ser Thr Thr Val Val Gly Asn Leu Leu Ile Ile Val Thr
 35          40          45
```

Val	Ser	Ser	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Arg
50						55					60				
Asn	Leu	Ala	Val	Leu	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Ala	Pro	Lys
65					70					75					80
Met	Leu	Val	Asp	Phe	Leu	Ser	Glu	Lys	Lys	Thr	Ile	Ser	Tyr	Gln	Gly
			85						90					95	
Cys	Met	Ala	Gln	Val	Phe	Phe	Phe	His	Phe	Leu	Gly	Gly	Ala	Met	Val
			100					105					110		
Phe	Phe	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Leu	Val	Ala	Ile	Ser	Arg
			115					120					125		
Pro	Leu	His	Tyr	Val	Thr	Ile	Met	Asn	Thr	Gln	His	Cys	Val	Val	Leu
						135					140				
Val	Val	Thr	Ala	Trp	Val	Val	Gly	Phe	Val	His	Ser	Ile	Val	Gln	Leu
145					150					155					160
Ser	Leu	Met	Leu	Pro	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Leu	Asp	Asn
				165					170					175	
Phe	Tyr	Cys	Asp	Val	Pro	Gln	Val	Leu	Arg	Leu	Ala	Cys	Thr	Asp	Thr
			180					185					190		
Ser	Leu	Leu	Glu	Phe	Leu	Met	Ile	Ser	Asn	Ser	Gly	Met	Leu	Asp	Val
			195				200					205			
Ile	Trp	Phe	Phe	Leu	Leu	Leu	Ile	Ser	Tyr	Leu	Val	Ile	Leu	Val	Met
	210				215						220				
Leu	Arg	Ser	His	Ser	Gly	Glu	Ala	Arg	Arg	Lys	Val	Ala	Ser	Thr	Cys
225					230					235					240
Thr	Thr	His	Ile	Ile	Val	Val	Ser	Met	Ile	Phe	Ile	Pro	Ser	Ile	Tyr
				245					250					255	
Leu	Tyr	Ala	Arg	Pro	Phe	Thr	Pro	Phe	Thr	Met	Asp	Lys	Ala	Val	Ser
			260					265					270		
Ile	Ser	His	Thr	Val	Met	Thr	Pro	Met	Leu	Asn	Pro	Met	Ile	Tyr	Thr
			275				280					285			
Leu	Arg	Asn	Gln	Glu	Met	Gln	Ala	Ala	Leu	Lys	Arg	Leu	Gly	Met	His
						295					300				
Leu	Leu	Val	Cys	Arg	Lys	Glu									
305						310									

<210> 2024  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2024

Met	Glu	Ile	Ile	Asn	Lys	Thr	Ala	Lys	Val	Gln	Phe	Phe	Phe	Arg	Pro
1				5					10					15	
Phe	Ser	Pro	Asp	Pro	Gly	Val	Gln	Met	Val	Ile	Phe	Val	Thr	Phe	Leu
			20					25					30		
Val	Met	Tyr	Leu	Thr	Ser	Leu	Ser	Gly	Asn	Ala	Thr	Ile	Ala	Val	Ile
			35				40					45			
Val	His	Ile	Asn	His	Ser	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
			50			55					60				
Asn	Leu	Ala	Val	Leu	Glu	Ile	Phe	Tyr	Thr	Ser	Ser	Ile	Ala	Pro	Leu
65					70					75					80
Ala	Leu	Ala	Asn	Leu	Leu	Ser	Met	Gly	Lys	Thr	Pro	Val	Ser	Ile	Thr
				85					90					95	
Gly	Cys	Gly	Thr	Gln	Met	Phe	Phe	Phe	Val	Phe	Leu	Gly	Gly	Ala	Asp
			100					105					110		
Cys	Val	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys



	115					120					125				
Tyr	Pro	Leu	Arg	Tyr	Thr	Leu	Ile	Met	Ser	Trp	Ser	Leu	Cys	Val	Glu
	130					135					140				
Met	Met	Val	Gly	Ser	Leu	Val	Leu	Gly	Phe	Leu	Leu	Ser	Leu	Pro	Leu
145					150					155					160
Thr	Ile	Leu	Ile	Phe	His	Leu	Pro	Phe	Cys	His	Asn	Asn	Glu	Ile	Tyr
				165					170					175	
His	Phe	Tyr	Cys	Asp	Met	Pro	Ala	Val	Ile	Arg	Leu	Ala	Cys	Gly	Asp
			180					185					190		
Thr	His	Val	His	Arg	Thr	Ala	Leu	Tyr	Ile	Ile	Ser	Phe	Ile	Val	Leu
	195					200						205			
Ser	Ile	Pro	Leu	Thr	Leu	Ile	Ser	Ile	Ser	Tyr	Val	Phe	Ile	Ile	Thr
	210				215						220				
Ala	Ile	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	His	Arg	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ser	Ser	His	Ile	Val	Val	Val	Leu	Leu	Gln	Tyr	Gly	Cys	Thr
				245				250						255	
Ser	Phe	Ile	Tyr	Leu	Ser	Pro	Ser	Ser	Ser	Tyr	Ser	Pro	Glu	Met	Gly
			260				265						270		
Arg	Met	Val	Ser	Val	Val	Tyr	Thr	Phe	Ile	Thr	Pro	Ile	Leu	Asn	Pro
	275					280					285				
Leu	Ile	Tyr	Ser	Met	Arg	Asn	Lys	Glu	Leu	Lys	Asp	Ala	Leu	Arg	Lys
	290					295					300				
Ala	Leu	Arg	Lys	Phe											
305															

<210> 2025  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2025

Met	Asp	Lys	His	Asn	Leu	Thr	Val	Val	Thr	Glu	Phe	Ile	Leu	Met	Gly
1				5					10				15		
Ile	Thr	Glu	Asn	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Val	Ile	Tyr	Leu	Thr	Ser	Val	Ile	Gly	Asn	Leu	Gly	Ile	Ile	Ile	Leu
	35					40						45			
Thr	Asn	Val	Asp	Ala	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
His	Leu	Ala	Phe	Thr	Asp	Phe	Val	Tyr	Ser	Thr	Thr	Val	Gly	Pro	Lys
65					70				75						80
Met	Leu	Val	Asn	Phe	Val	Val	Asp	Gln	Asn	Ala	Ile	Ser	Tyr	Ser	Leu
			85					90					95		
Cys	Ala	Thr	Gln	Leu	Ala	Phe	Phe	Leu	Leu	Phe	Ile	Gly	Ser	Asp	Leu
			100					105					110		
Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115						120					125			
Pro	Leu	Leu	Tyr	Thr	Val	Ile	Met	Ser	His	Lys	Val	Cys	Trp	Val	Leu
	130					135					140				
Val	Thr	Met	Thr	Tyr	Leu	Tyr	Cys	Thr	Phe	Met	Ser	Leu	Val	Val	Thr
145					150					155					160
Ile	Asn	Ile	Phe	Ser	Leu	Ser	Phe	Cys	Gly	Tyr	Asn	Val	Ile	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Cys	Ile	Pro	Leu	Ile	Ser	Leu	Leu	Cys	Ser	Asn	Thr
			180					185					190		

Gln	Glu	Val	Glu	Leu	Ile	Val	Met	Ile	Phe	Ala	Ala	Phe	Asp	Leu	Ile
	195						200					205			
Ser	Ser	Leu	Val	Val	Val	Leu	Met	Ser	Tyr	Leu	Leu	Ile	Leu	Ile	Ala
	210					215					220				
Val	Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230				235						240
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Ile
			245						250					255	
Phe	Met	Tyr	Val	Gln	Pro	Glu	Ser	Ser	His	Ser	Ile	Asp	Thr	Asp	Lys
			260					265					270		
Ile	Ser	Ser	Ile	Phe	Tyr	Thr	Leu	Ile	Ile	Pro	Leu	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Leu	Gln	Arg	Thr
	290					295					300				
Trp	Gln	Lys	Ile	Phe	Asn	Thr	Phe	Ser							
305						310									

<210> 2026  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2026

Met	Glu	Asn	Gln	Asn	Arg	Thr	Val	Val	Thr	Glu	Phe	Ile	Leu	Met	Gly
1			5						10					15	
Ile	Thr	Asp	His	Pro	Glu	Leu	Gln	Ser	Ser	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Leu	Ile	Tyr	Leu	Ile	Ser	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Val	Leu
		35				40					45				
Thr	Met	Val	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55				60					
His	Leu	Ala	Thr	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Thr	Val	Gly	Pro	Lys
65					70				75					80	
Met	Leu	Thr	Asn	Phe	Ile	Val	Asp	Gln	Asn	Arg	Ile	Ser	Phe	Asn	Leu
			85					90						95	
Cys	Ala	Thr	Gln	Leu	Ala	Phe	Phe	Leu	Leu	Phe	Ile	Ala	Cys	Glu	Leu
			100					105					110		
Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Phe	Tyr	Met	Val	Ile	Met	Ser	Lys	Arg	Leu	Cys	Trp	Val	Leu
	130					135					140				
Val	Val	Ile	Pro	Tyr	Val	Tyr	Cys	Thr	Ile	Val	Ala	Leu	Leu	Ile	Thr
145					150					155				160	
Ile	Lys	Ile	Phe	Thr	Leu	Ser	Phe	Cys	Gly	Ser	Asn	Val	Ile	Ser	His
			165						170					175	
Phe	Tyr	Cys	Asp	Ser	Leu	Pro	Leu	Leu	Ser	Leu	Val	Cys	Ser	Asn	Thr
			180					185					190		
Gln	Glu	Ile	Glu	Val	Ile	Met	Leu	Phe	Leu	Ser	Ala	Phe	Asn	Leu	Ile
		195					200					205			
Ser	Ser	Leu	Leu	Leu	Val	Leu	Val	Ser	Tyr	Leu	Leu	Ile	Leu	Ile	Ala
	210					215					220				
Ile	Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230				235						240
Cys	Gly	Ser	His	Leu	Thr	Val	Asp	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Ile
			245						250					255	
Phe	Met	Tyr	Met	Gln	Pro	Lys	Ser	Ser	His	Ser	Phe	Asp	Thr	Asp	Lys

			260					265				270			
Leu	Ala	Ser	Val	Phe	Tyr	Thr	Leu	Ile	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Ala	Leu	His	Arg	Thr
	290					295					300				
Gly	Lys	Lys	Leu	His	Ser	Val	Cys	Phe							
305					310										

<210> 2027

<211> 315

<212> PRT

<213> Mus musculus

<400> 2027

Met	Gln	Met	Glu	Ser	Gln	Asn	Leu	Thr	Val	Val	Thr	Glu	Phe	Ile	Leu
1				5				10					15		
Arg	Gly	Ile	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Val	Pro	Leu	Phe	Gly	Leu
			20				25					30			
Phe	Phe	Met	Ile	Tyr	Leu	Ile	Ser	Leu	Phe	Gly	Asn	Leu	Gly	Met	Ile
		35				40					45				
Ile	Leu	Thr	Ile	Val	Glu	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe
	50				55					60					
Leu	Arg	His	Leu	Ala	Ile	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Ile	Gly
65				70					75					80	
Pro	Lys	Met	Leu	Ala	Asn	Phe	Val	Val	Ser	Lys	Asn	Thr	Ile	Ser	Phe
			85					90				95			
His	Leu	Cys	Ala	Thr	Gln	Leu	Ala	Phe	Phe	Leu	Leu	Phe	Ile	Ala	Cys
			100				105					110			
Glu	Leu	Phe	Ile	Leu	Ser	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile
		115				120					125				
Cys	Asn	Pro	Leu	Leu	Tyr	Asn	Val	Ile	Met	Ser	Gln	Thr	Val	Cys	Trp
	130					135					140				
Val	Leu	Val	Ala	Ile	Pro	Tyr	Leu	Tyr	Ser	Val	Phe	Ile	Ser	Leu	Ile
145				150					155					160	
Val	Thr	Ile	Asn	Ile	Phe	Ser	Ser	Ser	Phe	Cys	Gly	Tyr	Asn	Val	Ile
			165					170					175		
Pro	His	Phe	Tyr	Cys	Asp	Gly	Leu	Pro	Leu	Ile	Ser	Leu	Leu	Cys	Thr
		180				185						190			
Asn	Thr	Asp	Lys	Ile	Gly	Leu	Ile	Ile	Leu	Ile	Leu	Ser	Ala	Ile	Asn
	195					200					205				
Leu	Ile	Ser	Ser	Leu	Leu	Ile	Ile	Leu	Gly	Ser	Tyr	Leu	Leu	Ile	Phe
	210					215					220				
Arg	Ala	Ile	Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe
225				230						235				240	
Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Val	Phe	Tyr	Gly	Thr
			245					250				255			
Leu	Ile	Phe	Met	Tyr	Val	Gln	Pro	Lys	Thr	Ser	His	Ser	Phe	Asp	Thr
		260					265					270			
Asp	Lys	Val	Ala	Ser	Ile	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn
	275					280					285				
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Tyr	Ala	Leu	Arg
	290					295					300				
Lys	Thr	Gly	Lys	Ile	Ile	Gln	Asn	Asn	Phe	Ser					
305				310						315					

<210> 2028  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2028

Met	Glu	Asn	His	Asn	Leu	Thr	Met	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Ile	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Ile	Ile	Tyr	Leu	Ile	Thr	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35					40					45			
Thr	Met	Val	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
His	Leu	Ala	Thr	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys
65					70					75				80	
Met	Leu	Arg	Asn	Phe	Leu	Val	Glu	Gln	Asn	Thr	Ile	Ser	Ile	Tyr	Phe
			85						90					95	
Cys	Ala	Val	Gln	Leu	Ser	Phe	Phe	Ser	Met	Phe	Ile	Val	Ser	Glu	Phe
			100						105				110		
Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Leu	Tyr	Asn	Val	Ile	Met	Ser	Gln	Arg	Val	Cys	Trp	Leu	Leu
	130					135					140				
Val	Ala	Ile	Pro	Tyr	Leu	Tyr	Ser	Ile	Phe	Val	Ala	Leu	Ile	Val	Thr
145					150					155				160	
Ile	Asn	Ile	Phe	Ser	Ser	Ser	Phe	Cys	Gly	His	Asn	Ile	Ile	Ser	His
			165						170					175	
Phe	Tyr	Cys	Asp	Gly	Leu	Pro	Leu	Ile	Ser	Leu	Leu	Cys	Ser	Asn	Lys
			180						185				190		
Lys	Glu	Ser	Glu	Met	Ile	Ile	Leu	Ile	Leu	Ser	Thr	Ile	Asn	Leu	Ile
		195					200					205			
Ser	Ser	Pro	Val	Val	Ile	Leu	Val	Ser	Tyr	Leu	Leu	Ile	Leu	Arg	Ala
		210				215					220				
Ile	Leu	Lys	Met	Asn	Ser	Ala	Glu	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr
225					230					235				240	
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Ile
			245						250					255	
Phe	Met	Tyr	Val	Gln	Pro	Lys	Ser	Asn	His	Thr	Leu	Asn	Thr	Asp	Lys
			260					265					270		
Val	Ala	Ser	Ile	Phe	Tyr	Thr	Leu	Ile	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Tyr	Ala	Leu	Arg	Lys	Thr
	290				295						300				
Gly	Lys	Ser	Ile	Gln	Asn	Ile	Phe	Ser							
305					310										

<210> 2029  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2029

Met	Lys	Lys	Gln	Asn	Phe	Thr	Met	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Ile	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Phe	Leu



Glu	Met	Val	Thr	Leu	Val	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile
			100					105					110		
Cys	Lys	Pro	Leu	Ser	Tyr	Thr	Thr	Val	Met	Arg	Gly	Asn	Val	Cys	Val
		115					120					125			
Ser	Ile	Val	Ala	Thr	Ala	Trp	Ala	Ile	Gly	Phe	Leu	His	Ser	Val	Ser
		130				135					140				
Gln	Leu	Ala	Phe	Ala	Ile	Ser	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Arg	Val
145					150					155					160
Asp	Ser	Phe	Tyr	Cys	Asp	Leu	Pro	Arg	Val	Ile	Lys	Leu	Ala	Cys	Ala
				165					170					175	
Glu	Thr	Tyr	Arg	Leu	Asp	Ile	Met	Val	Ile	Ala	Asn	Ser	Gly	Val	Leu
			180					185					190		
Ser	Val	Cys	Ser	Phe	Val	Leu	Leu	Ile	Ile	Ser	Tyr	Gly	Ile	Ile	Leu
		195					200					205			
Met	Thr	Ile	Gln	Arg	Arg	Pro	Ser	Asp	Arg	Ser	Ser	Lys	Ala	Leu	Ser
		210				215					220				
Thr	Leu	Thr	Ala	His	Ile	Thr	Val	Val	Leu	Leu	Phe	Phe	Gly	Pro	Cys
225					230					235					240
Ile	Phe	Ile	Tyr	Ala	Trp	Pro	Phe	Pro	Ile	Lys	Ser	Leu	Asp	Lys	Phe
				245					250					255	
Leu	Ala	Val	Phe	Tyr	Ser	Val	Val	Thr	Pro	Leu	Leu	Asn	Pro	Ile	Ile
			260					265					270		
Tyr	Thr	Leu	Arg	Asn	Thr	Glu	Met	Lys	Thr	Ala	Met	Arg	Arg	Leu	Arg
		275					280					285			
Gln	Trp	Asn	Leu	Ser	Phe	Trp	Val	Lys	Ser						
		290				295									

<210> 2031  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2031

Met	Asp	Gly	Gly	Asn	Arg	Ser	Val	Val	Ser	Glu	Phe	Ile	Leu	Gln	Gly
1				5					10					15	
Leu	Ser	His	Ser	Lys	Asn	Ile	Gln	Val	Leu	Leu	Phe	Val	Ile	Phe	Leu
			20				25						30		
Met	Leu	Tyr	Leu	Phe	Ile	Val	Ser	Gly	Asn	Ile	Val	Ile	Leu	Thr	Leu
		35				40						45			
Ile	Thr	Thr	Asp	Pro	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala
		50				55					60				
Asn	Leu	Ser	Phe	Val	Asp	Met	Cys	Leu	Ser	Ser	Asn	Ile	Thr	Pro	Lys
65					70					75					80
Met	Ile	Thr	Asp	Phe	Leu	Arg	Glu	Asn	Lys	Thr	Ile	Ser	Phe	Ala	Gly
				85					90					95	
Cys	Met	Ser	Gln	Val	Phe	Phe	Thr	His	Cys	Ile	Ala	Gly	Gly	Glu	Met
			100					105					110		
Ile	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115				120						125			
Pro	Leu	His	Tyr	Phe	Thr	Ile	Met	Asn	Leu	Lys	Arg	Cys	Thr	Gly	Leu
		130				135					140				
Val	Leu	Thr	Ser	Trp	Thr	Ile	Gly	Phe	Ile	His	Gly	Ile	Ser	Tyr	Leu
145					150					155					160
Val	Val	Phe	Val	His	Leu	Pro	Phe	Cys	Gly	Pro	Lys	Glu	Ile	Asp	Ser
				165					170					175	
Phe	Phe	Cys	Asp	Met	Pro	Leu	Ile	Ile	Lys	Leu	Ala	Cys	Met	Asp	Ser

			180					185				190				
His	Asn	Leu	Asn	Thr	Leu	Met	Asn	Ala	Glu	Cys	Gly	Val	Val	Val	Val	
	195						200					205				
Thr	Cys	Phe	Ser	Leu	Leu	Leu	Ile	Ser	Tyr	Thr	Tyr	Ile	Leu	Val	Thr	
	210					215					220					
Val	Ser	Lys	Ser	Ser	Lys	Ala	Gly	Ala	Ser	Lys	Ala	Leu	Ser	Thr	Cys	
225					230					235					240	
Ser	Ala	His	Ile	Thr	Val	Val	Met	Ile	Phe	Phe	Val	Pro	Cys	Ile	Phe	
			245						250					255		
Ile	Tyr	Val	Trp	Pro	Leu	Ser	Ile	Thr	Trp	Phe	Asp	Lys	Phe	Leu	Ala	
		260						265					270			
Val	Phe	Tyr	Ser	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Thr	Ile	Tyr	Thr	
	275						280					285				
Leu	Arg	Asn	Lys	Glu	Ile	Lys	Asn	Ala	Met	Lys	Arg	Phe	Ile	Gly	Lys	
	290					295					300					
Phe	Leu	Gly	Pro	Lys	Arg	Asn	Ser									
305					310											

<210> 2032  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2032

Met	Asp	Gly	Glu	Asn	His	Thr	Val	Val	Ser	Ala	Phe	Val	Phe	Leu	Gly	
1				5					10					15		
Leu	Thr	His	Ser	Trp	Glu	Ile	Gln	Leu	Leu	Leu	Leu	Val	Leu	Ser	Ser	
		20						25					30			
Val	Leu	Tyr	Ile	Leu	Ser	Met	Ala	Gly	Asn	Ile	Leu	Ile	Val	Phe	Ser	
	35					40					45					
Val	Thr	Ile	Asp	Pro	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala	
	50				55					60						
Cys	Leu	Ser	Phe	Ile	Asp	Leu	Val	Ala	Cys	Ser	Val	Thr	Ser	Pro	Lys	
65				70					75					80		
Met	Val	Tyr	Asp	Leu	Phe	Arg	Lys	His	Lys	Val	Ile	Ser	Phe	Gly	Gly	
		85						90					95			
Cys	Ile	Thr	Gln	Ile	Phe	Phe	Ile	His	Leu	Val	Gly	Gly	Val	Glu	Met	
	100							105					110			
Val	Leu	Leu	Val	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Lys	
	115					120						125				
Pro	Leu	His	Tyr	Leu	Thr	Ile	Met	Ser	Pro	Arg	Val	Cys	Val	Leu	Phe	
	130				135						140					
Leu	Gly	Ala	Ala	Trp	Gly	Leu	Gly	Ile	Ser	His	Ser	Leu	Phe	Gln	Leu	
145				150					155					160		
Ala	Phe	Leu	Ile	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Thr	Leu	Asp	Ser	
		165						170					175			
Phe	Tyr	Cys	Asp	Leu	Pro	Lys	Leu	Leu	Arg	Leu	Ala	Cys	Arg	Asp	Thr	
	180							185				190				
Tyr	Lys	Leu	Gln	Phe	Met	Val	Thr	Ile	Asn	Ser	Gly	Phe	Ile	Cys	Val	
	195					200						205				
Gly	Ser	Phe	Leu	Leu	Leu	Leu	Ile	Ser	Tyr	Ile	Phe	Ile	Leu	Phe	Ser	
	210					215					220					
Val	Trp	Lys	His	Ser	Ser	Gly	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu	
225				230						235				240		
Ser	Ala	His	Ile	Thr	Val	Val	Phe	Leu	Phe	Phe	Gly	Pro	Thr	Leu	Phe	
			245						250					255		





<210> 2034  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2034

Met	Tyr	Phe	Pro	Gln	Leu	Ser	Asp	Pro	Met	Asp	Gln	Val	Asn	Ala	Ser
1				5					10					15	
Ala	Leu	Pro	Glu	Phe	Val	Leu	Leu	Gly	Leu	Ala	Gln	Ser	Phe	Gly	Thr
			20					25					30		
Gln	Ile	Phe	Phe	Gly	Leu	Phe	Phe	Ser	Leu	Phe	Tyr	Val	Gly	Ile	Leu
	35						40					45			
Phe	Gly	Asn	Leu	Phe	Ile	Val	Phe	Ile	Val	Ile	Val	Asp	Ser	His	Leu
	50					55					60				
His	Phe	Pro	Met	Tyr	Ile	Leu	Leu	Ala	Asn	Leu	Ser	Leu	Ile	Asp	Leu
65					70				75						80
Gly	Leu	Ser	Ser	Thr	Thr	Ile	Pro	Arg	Thr	Ile	Ser	Asp	Leu	Phe	Thr
				85					90					95	
Gly	Cys	Lys	Val	Ile	Ser	Phe	His	Ser	Cys	Met	Thr	Gln	Met	Phe	Phe
			100					105					110		
Ile	His	Val	Met	Gly	Gly	Val	Glu	Met	Val	Leu	Leu	Ile	Ala	Met	Ala
	115						120					125			
Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Leu	Met	Ile
	130					135					140				
Met	Asn	Pro	Lys	Lys	Cys	Ile	Ile	Leu	Val	Ile	Ala	Ala	Trp	Val	Ile
145					150					155					160
Gly	Met	Ile	His	Ala	Val	Ser	Gln	Phe	Leu	Phe	Val	Val	Asn	Leu	Pro
				165					170					175	
Phe	Cys	Gly	Pro	Tyr	Asn	Val	Gly	Ser	Phe	Tyr	Cys	Asp	Phe	Pro	Arg
			180					185					190		
Val	Ile	Lys	Leu	Ala	Cys	Met	Asp	Thr	Tyr	Lys	Leu	Glu	Phe	Val	Val
	195						200					205			
Ser	Ala	Asn	Ser	Gly	Phe	Ile	Ser	Met	Cys	Thr	Phe	Phe	Phe	Leu	Ile
	210					215					220				
Thr	Ser	Tyr	Ile	Phe	Ile	Leu	Ala	Ser	Val	Arg	Gln	His	Ser	Ser	Thr
225					230					235					240
Asp	Leu	Ser	Lys	Ala	Phe	Val	Thr	Leu	Ser	Ala	His	Ile	Thr	Val	Val
				245					250					255	
Val	Leu	Phe	Phe	Ile	Pro	Cys	Met	Phe	Leu	Tyr	Val	Trp	Pro	Phe	Pro
			260					265					270		
Thr	Lys	Ser	Leu	Asp	Asn	Phe	Phe	Ala	Ile	Val	Asp	Phe	Val	Leu	Thr
	275					280						285			
Pro	Val	Leu	Asn	Pro	Thr	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Met	Arg
	290					295					300				
Leu	Ala	Ile	Arg	Arg	Leu	Ser	Arg	Gln	Val	Leu	Ser	Ser	Arg	Glu	Phe
305					310					315					320
Ile															

<210> 2035  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2035

Met	Asp	Pro	Ser	Asn	Tyr	Ser	Thr	Leu	His	Val	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Asp	His	Pro	His	Leu	Glu	Met	Ile	Leu	Ser	Gly	Val	Val	Thr
			20					25					30		
Phe	Phe	Tyr	Ile	Ile	Thr	Leu	Val	Gly	Asn	Thr	Ala	Ile	Ile	Leu	Ala
		35					40					45			
Ser	Leu	Leu	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Ile	Val	Pro	Gln
65					70					75					80
Met	Leu	Val	Asn	Leu	Trp	Gly	Pro	Glu	Lys	Thr	Ile	Ser	Ser	Val	Gly
				85					90					95	
Cys	Ile	Val	Gln	Leu	Tyr	Val	Tyr	Met	Trp	Leu	Gly	Ser	Ile	Glu	Cys
			100					105					110		
Leu	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Phe	Thr	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	His	Tyr	Phe	Val	Ile	Met	Asn	Pro	Arg	Leu	Cys	Val	Lys	Met
	130					135					140				
Ile	Val	Met	Val	Trp	Gly	Ile	Ser	Leu	Ala	Asn	Ser	Val	Ile	Leu	Cys
145					150					155					160
Thr	Leu	Thr	Val	Asn	Leu	Pro	Arg	Cys	Gly	His	Asn	Ile	Leu	Asp	His
				165					170					175	
Phe	Leu	Cys	Glu	Leu	Pro	Ala	Met	Val	Arg	Ile	Ala	Cys	Val	Asp	Thr
		180					185						190		
Thr	Lys	Val	Glu	Leu	Ser	Val	Phe	Ala	Leu	Gly	Ile	Val	Ile	Val	Leu
	195						200					205			
Thr	Pro	Leu	Ile	Leu	Ile	Leu	Ile	Ser	Tyr	Gly	Tyr	Ile	Ala	Lys	Thr
	210					215					220				
Val	Leu	Asn	Met	Lys	Ser	Lys	Ala	Gly	Gln	Gln	Lys	Ala	Met	Asn	Thr
225				230						235					240
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Ile	Phe	Tyr	Gly	Ser	Ile	Ile
			245						250					255	
Tyr	Leu	Tyr	Leu	Gln	Pro	Gly	Asn	Arg	Ala	Ser	Lys	Asp	Gln	Gly	Lys
		260					265						270		
Phe	Leu	Thr	Leu	Phe	Tyr	Thr	Ile	Ile	Thr	Pro	Ser	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Arg	Asp	Met	Lys	Asp	Ala	Leu	Lys	Lys	Leu
	290					295					300				
Met	Arg	Phe	Tyr	His	Arg	Phe									
305					310										

<210> 2036  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2036															
Met	Ile	Pro	Gly	Gln	Asn	Gln	Ser	Trp	Val	Ser	Glu	Phe	Ile	Leu	Ile
1				5					10					15	
Gly	Phe	Ser	Ser	Asp	Pro	Thr	Thr	Asn	Ser	Ile	Leu	Phe	Ile	Val	Phe
			20					25					30		
Leu	Leu	Ile	Tyr	Leu	Ser	Ser	Val	Leu	Gly	Asn	Gly	Leu	Ile	Ile	Met
		35					40					45			
Leu	Val	Cys	Leu	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Thr	Leu	Ser	Leu	Leu	Asp	Met	Ser	Phe	Val	Thr	Thr	Thr	Met	Pro

65					70					75				80	
Gln	Met	Leu	Val	His	Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser	Phe	Ala
				85					90					95	
Ser	Cys	Cys	Leu	Gln	Met	Phe	Val	Phe	Gly	Ala	Leu	Gly	Ile	Thr	Glu
			100					105					110		
Cys	Thr	Phe	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	
		115				120					125				
Tyr	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Leu	Asn	Trp	Gly	Leu	Cys	Ile	Arg
	130					135					140				
Leu	Ala	Ala	Gly	Ser	Trp	Ile	Cys	Gly	Phe	Phe	Ser	Ser	Leu	Leu	His
145					150					155					160
Thr	Phe	Phe	Thr	Met	Ser	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Arg	Val	Asn
				165					170					175	
His	Tyr	Phe	Cys	Glu	Gly	Pro	Ser	Val	Arg	Ser	Leu	Ala	Cys	Met	Asp
			180					185					190		
Thr	His	Leu	Ile	Glu	Met	Val	Asp	Phe	Val	Leu	Ser	Val	Phe	Val	Val
		195					200					205			
Val	Ile	Pro	Ile	Ser	Leu	Ile	Val	Ala	Ser	Tyr	Ile	Arg	Ile	Ala	Met
		210				215					220				
Ala	Ile	Leu	Lys	Ile	Lys	Ser	Thr	Gln	Gly	Arg	Cys	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Thr	Phe	Phe	Tyr	Ala	Pro	Ala
				245					250					255	
Thr	Tyr	Ile	Tyr	Leu	Arg	Pro	Asn	Ser	Ser	Tyr	Ser	Pro	Glu	Arg	Asp
			260					265					270		
Lys	Gln	Val	Ser	Leu	Phe	Tyr	Asn	Ala	Phe	Thr	Ala	Leu	Leu	Asn	Pro
		275					280					285			
Val	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Arg	Ala	Phe	Leu	Lys
		290				295					300				
Val	Met	Gly	His	Ser	Arg	Leu	Asp	Gln							
305					310										

<210> 2037  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2037

Met	Lys	Lys	Met	Asn	Tyr	Gln	Glu	Ile	Gly	Asn	Tyr	Thr	Lys	Val	Thr
1				5					10					15	
Glu	Phe	Ile	Leu	Val	Gly	Leu	Ser	Arg	His	Pro	Thr	Ser	Gln	Ser	Val
			20					25					30		
Val	Phe	Trp	Thr	Leu	Met	Phe	Leu	Tyr	Ile	Val	Thr	Leu	Ala	Gly	Asn
		35				40						45			
Ser	Leu	Ile	Ile	Phe	Leu	Val	Gly	Gly	Asn	Ser	Gln	Leu	His	Thr	Pro
		50				55				60					
Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu	Ser	Leu	Leu	Asp	Leu	Leu	Phe	Ser
65				70					75					80	
Thr	Ser	Val	Val	Pro	Leu	Ile	Met	Val	Asn	Ser	Leu	Tyr	Asn	Phe	Ser
				85					90					95	
Thr	Ile	Ser	Tyr	Ser	Ser	Cys	Phe	Thr	Gln	Leu	Ala	Phe	Arg	Ala	Phe
			100					105					110		
Leu	Ala	Leu	Ala	Glu	Cys	Phe	Leu	Leu	Ala	Ile	Met	Ala	Tyr	Asp	Arg
		115					120					125			
Phe	Val	Ala	Ile	Ser	Asn	Pro	Leu	Arg	Tyr	Asn	Leu	Val	Met	Ser	Ser
		130					135					140			

Arg	Val	Cys	Ile	Phe	Met	Ala	Leu	Leu	Ala	Trp	Met	Ala	Ala	Leu	Leu
145					150					155					160
Leu	Thr	Val	Leu	Pro	Ile	Leu	Ile	Phe	Pro	Ile	Ser	Phe	Cys	Gly	Gln
				165					170					175	
Asn	Val	Val	Asn	His	Phe	Ser	Cys	Glu	Val	Gln	Ala	Ile	Phe	Lys	Leu
			180					185					190		
Leu	Cys	Ser	Asn	Thr	Ile	Ser	Leu	Gln	Ile	Met	Met	Ile	Ala	Cys	Ala
	195						200					205			
Val	Ile	Ser	Met	Pro	Val	Pro	Leu	Met	Phe	Ile	Leu	Phe	Ser	Tyr	Leu
	210					215					220				
Cys	Ile	Leu	Lys	Ala	Val	Leu	Arg	Ile	His	Pro	Thr	Lys	Ala	Arg	Leu
225					230					235					240
Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Ile	Val	Val	Thr	Ile	Tyr
				245					250					255	
Phe	Gly	Thr	Leu	Ile	Tyr	Ile	Tyr	Met	Arg	Pro	Gln	Ser	Lys	Ile	Ser
			260					265					270		
His	Asn	Gly	Asp	Lys	Ile	Val	Ser	Ile	Phe	Tyr	Ala	Ala	Val	Thr	Pro
		275					280					285			
Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ala
	290					295					300				
Val	Leu	Arg	Arg	Val	Asn	Cys	Gly	Val	Lys	Ser					
305					310					315					

<210> 2038  
 <211> 302  
 <212> PRT  
 <213> Mus musculus

<400> 2038

Met	Lys	Asn	Ser	Thr	Val	Leu	Thr	Glu	Phe	Val	Leu	Thr	Gly	Leu	Thr
1				5					10					15	
Glu	Ser	Pro	Glu	Leu	Gln	Val	Pro	Leu	Phe	Leu	Phe	Phe	Leu	Val	Ile
			20					25					30		
Tyr	Leu	Ile	Thr	Ile	Val	Gly	Asn	Leu	Gly	Leu	Ile	Ala	Leu	Ile	Trp
		35				40						45			
Asn	Asp	Pro	His	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Gly	His	Leu
	50				55						60				
Ala	Phe	Val	Asp	Ala	Ser	Leu	Ser	Ser	Thr	Val	Ala	Pro	Lys	Met	Leu
65					70				75					80	
Leu	Asp	Phe	Leu	Gln	Met	Asn	Lys	Met	Ile	Ser	Tyr	Ser	Glu	Cys	Met
			85					90					95		
Thr	Gln	Phe	Phe	Ile	Phe	Ala	Ile	Cys	Val	Thr	Thr	Glu	Cys	Phe	Leu
			100					105					110		
Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
Leu	Tyr	Pro	Met	Ile	Met	Thr	Lys	Arg	Leu	Cys	Ile	Cys	Leu	Leu	Val
	130					135					140				
Leu	Ser	Phe	Val	Gly	Gly	Ile	Leu	His	Ser	Ser	Ile	His	Glu	Gly	Phe
145					150					155					160
Leu	Leu	Leu	Leu	Asn	Phe	Cys	Asn	Ser	Asn	Ile	Val	His	His	Phe	Phe
				165					170					175	
Cys	Asp	Ile	Val	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Ala	Asp	Thr	Thr	Leu
			180					185					190		
Asn	Phe	Gln	Leu	Ile	Phe	Val	Phe	Ala	Gly	Ile	Ile	Gln	Val	Phe	Thr
		195					200					205			
Val	Val	Ile	Val	Leu	Val	Ser	Tyr	Thr	Leu	Val	Leu	Phe	Thr	Ile	Leu

210		215		220
Gln Arg Lys Ser Val	Gln Ser Met Lys Lys	Ala Phe Ser Thr Cys Gly		
225	230	235	240	
Ala His Leu Leu Ser Val	Ser Leu Tyr Tyr	Gly Pro Leu Leu Ile Met		
	245	250	255	
Tyr Ile Phe Pro Val Ser	Gln Glu Ala Asp Gly	Gln Asp Ile Ile Asp		
	260	265	270	
Ser Leu Phe Tyr Thr Val	Ile Ile Pro Val Leu Asn Pro	Ile Ile Tyr		
	275	280	285	
Ser Leu Arg Asn Lys Gln	Val Met Asp Ser Arg	Lys Arg Cys		
290	295	300		

<210> 2039  
 <211> 303  
 <212> PRT  
 <213> Mus musculus

<400> 2039

Met Glu Lys Ile Asn His Ser Glu Ile Ser Glu Phe Ile Ile Leu Gly
1 5 10 15
Leu Cys Asp Ser Trp Glu Leu Gln Ala Phe Phe Leu Val Ile Phe Thr
20 25 30
Ser Leu Tyr Leu Ile Thr Ile Phe Gly Asn Ile Phe Ile Val Val Leu
35 40 45
Ile Ile Thr Asp Leu His Leu His Thr Pro Met Tyr Phe Leu Leu Ala
50 55 60
Asn Leu Ser Phe Ile Asp Phe Cys Leu Ser Ser Val Thr Thr Pro Lys
65 70 75 80
Met Ile Ile Asp Phe Leu Lys Glu Ile Lys Thr Ile Ser Phe Gly Gly
85 90 95
Cys Met Cys Gln Ile Phe Phe Gly His Phe Phe Gly Gly Gly Glu Met
100 105 110
Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
115 120 125
Pro Leu His Tyr Ser Asn Ile Met Ser Arg His Met Cys Ile Gly Leu
130 135 140
Val Met Ala Ser Trp Met Ile Gly Phe Val His Ser Ile Ser Gln Leu
145 150 155 160
Val Ile Ile Val Asn Leu Pro Phe Cys Gly Ser Arg Val Leu Asp Ser
165 170 175
Phe Phe Cys Asp Ile Pro Leu Val Ile Lys Leu Ala Cys Leu Asp Ile
180 185 190
Tyr Val Leu Glu Ile Leu Ile Asn Ala Asp Ser Gly Val Leu Ala Ala
195 200 205
Ile Cys Phe Val Leu Leu Leu Val Ser Tyr Phe His Ile Leu Thr Thr
210 215 220
Val Cys Leu His Ser Lys Asp Gly Ala Ser Lys Ala Leu Ser Thr Cys
225 230 235 240
Thr Ala His Ile Thr Val Val Val Leu Phe Phe Gly Pro Cys Ile Phe
245 250 255
Ile Tyr Leu Trp Pro Val Ser Ile Thr Trp Val Asp Lys Phe Leu Ala
260 265 270
Val Phe Tyr Ala Val Ile Thr Pro Leu Leu Asn Pro Ala Ile Tyr Thr
275 280 285
Leu Arg Asn Lys Glu Ile Lys Thr Ala Met Lys Arg Leu Gln Cys
290 295 300

<210> 2040  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2040  
 Met Asn Glu Ile Asn Tyr Thr Glu Val Ser Glu Phe Val Phe Leu Gly  
 1 5 10 15  
 Leu Ser Thr Ser Lys His Ile Gln His Phe Phe Leu Ala Phe Ser Val  
 20 25 30  
 Val Phe Tyr Val Thr Ile Val Leu Gly Asn Thr Leu Val Val Phe Thr  
 35 40 45  
 Leu Ala Phe Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Gly  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Leu Cys Leu Ser Thr Leu Thr Val Pro Lys  
 65 70 75 80  
 Met Ile Ser Asp Leu Ser Ser Gly His Asn Thr Ile Ser Phe Gln Gly  
 85 90 95  
 Cys Val Phe Gln Ile Phe Val Leu His Val Leu Gly Ala Ser Glu Met  
 100 105 110  
 Val Leu Leu Val Ala Met Ala Trp Asp Arg Tyr Val Ala Ile Cys Lys  
 115 120 125  
 Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Leu Leu Leu  
 130 135 140  
 Leu Ser Gly Ala Trp Ile Ile Gly Phe Leu His Ser Val Ala Gln Leu  
 145 150 155 160  
 Gly Phe Val Val His Leu Arg Phe Cys Gly Pro Asn Lys Ile Asp Ser  
 165 170 175  
 Phe Tyr Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Ile Asp Asn  
 180 185 190  
 Tyr Arg Met Glu Phe Met Val Ala Ala Asn Ser Gly Ile Ile Ser Ile  
 195 200 205  
 Gly Thr Phe Phe Leu Leu Ile Ile Ser Tyr Ile Val Ile Leu Phe Asn  
 210 215 220  
 Val Arg Lys His Ser Ser Gly Asp Leu Ser Lys Ala Leu Ser Thr Leu  
 225 230 235 240  
 Ser Ala His Ile Ser Val Val Val Leu Phe Phe Gly Pro Cys Ile Phe  
 245 250 255  
 Val Tyr Met Trp Pro Phe Pro Thr Val Pro Val Asp Lys Phe Leu Ala  
 260 265 270  
 Ile Leu Asp Phe Met Ile Thr Pro Ile Leu Asn Pro Ala Ile Tyr Thr  
 275 280 285  
 Leu Arg Asn Lys Asp Met Lys Val Ala Met Arg Lys Leu Ser Tyr Gln  
 290 295 300  
 Phe Leu Asn Phe Arg Lys Met Ser  
 305 310

<210> 2041  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2041  
 Met Phe Lys Lys Asn Tyr Thr Lys Val Ser Glu Phe Val Phe Leu Gly

1				5				10					15			
Leu	Ser	Ser	Ser	Arg	Lys	Ile	Arg	Pro	Phe	Leu	Leu	Ala	Phe	Ser	Met	
			20					25					30			
Val	Leu	Tyr	Val	Ala	Ile	Val	Leu	Gly	Asn	Thr	Leu	Val	Val	Phe	Thr	
		35					40					45				
Leu	Ala	Phe	Asp	Pro	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Gly	
	50					55					60					
Asn	Leu	Ala	Phe	Ile	Asp	Leu	Cys	Leu	Ser	Thr	Leu	Thr	Val	Pro	Lys	
65					70					75					80	
Met	Ile	Ser	Asp	Leu	Ser	Ser	Gly	His	Asn	Ala	Ile	Ser	Phe	Gln	Gly	
				85					90					95		
Cys	Val	Phe	Gln	Ile	Phe	Val	Leu	His	Val	Leu	Gly	Ala	Thr	Glu	Met	
			100					105					110			
Val	Leu	Leu	Val	Ala	Met	Ala	Trp	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	
		115					120					125				
Pro	Leu	His	Tyr	Leu	Thr	Ile	Met	Ser	Pro	Arg	Met	Cys	Leu	Met	Leu	
	130					135					140					
Leu	Ser	Gly	Ala	Trp	Val	Ile	Gly	Phe	Leu	His	Ser	Val	Thr	Gln	Leu	
145					150					155					160	
Ala	Phe	Ile	Ile	Lys	Leu	Asn	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asp	Ser	
				165					170					175		
Phe	Tyr	Cys	Asp	Leu	Pro	Gln	Phe	Ile	Lys	Leu	Ala	Cys	Ile	Asp	Pro	
		180						185					190			
Lys	Lys	Met	Gln	Phe	Met	Val	Thr	Ala	Asn	Ser	Gly	Phe	Ile	Ser	Met	
		195					200					205				
Gly	Thr	Phe	Leu	Leu	Leu	Ile	Ile	Ser	Tyr	Ile	Val	Ile	Leu	Phe	Ile	
	210					215					220					
Val	Arg	Lys	His	Ser	Ser	Ser	Gly	Asp	Leu	Ser	Lys	Ala	Leu	Ser	Thr	
225					230					235					240	
Leu	Ser	Ala	His	Ile	Ser	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Cys	Ile	
			245						250					255		
Phe	Val	Tyr	Met	Trp	Pro	Phe	Pro	Thr	Val	Pro	Val	Asp	Lys	Phe	Leu	
		260						265					270			
Ala	Ile	Leu	Asp	Phe	Met	Val	Thr	Pro	Ile	Leu	Asn	Pro	Ala	Ile	Tyr	
		275					280					285				
Thr	Leu	Arg	Asn	Lys	Asp	Met	Lys	Val	Ala	Met	Arg	Arg	Leu	Ile	Thr	
	290				295						300					
Gln	Leu	Phe	Asn	Leu	Arg	Lys	Ser	Pro								
305					310											

<210> 2042  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2042

Met	Pro	Met	Asp	Gln	Leu	Asn	Asp	Ser	Arg	Val	Ser	Glu	Phe	Val	Leu	
1				5				10					15			
Leu	Gly	Leu	Ser	Ser	Ser	Trp	Glu	Thr	Lys	Val	Phe	Leu	Met	Val	Thr	
			20					25					30			
Phe	Ser	Met	Leu	Tyr	Ile	Gly	Ile	Ile	Leu	Gly	Asn	Leu	Phe	Ile	Val	
		35				40						45				
Ile	Leu	Val	Ile	Ala	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	
	50				55						60					
Leu	Ala	Asn	Leu	Ser	Leu	Asn	Asp	Val	Trp	Val	Ser	Ser	Thr	Thr	Val	
65					70				75						80	

Pro Lys Met Ile Ser Asp Leu Leu Lys Glu His Lys Val Ile Ser Phe  
                             85                            90                            95  
 His Asn Cys Met Thr Gln Ile Cys Phe Ile His Ile Met Gly Gly Val  
                             100                            105                            110  
 Glu Met Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Thr Ala Ile  
                             115                            120                            125  
 Cys Lys Pro Leu Arg Tyr Leu Ser Ile Met Ser Pro Arg Ile Cys Ile  
                             130                            135                            140  
 Ser Phe Val Ile Ala Gly Trp Val Thr Gly Val Val His Ala Met Ser  
 145                            150                            155                            160  
 Gln Phe Ser Phe Val Val Ser Leu Pro Phe Cys Gly Pro Asn Lys Val  
                             165                            170                            175  
 Asp Ser Phe Tyr Cys Asp Phe Pro Arg Ile Ile Gln Leu Ala Cys Thr  
                             180                            185                            190  
 Asp Gly Asp Lys Phe Glu Phe Val Val Ala Ala Asn Ser Gly Phe Met  
                             195                            200                            205  
 Ser Met Gly Thr Phe Phe Leu Leu Leu Leu Ser Tyr Val Phe Ile Leu  
                             210                            215                            220  
 Val Thr Val Trp Gln Arg Ser Ser Gly Asp Leu Ser Lys Ala Leu Val  
 225                            230                            235                            240  
 Thr Leu Ser Ala His Ile Thr Val Val Val Leu Phe Phe Thr Pro Cys  
                             245                            250                            255  
 Met Phe Leu Tyr Val Trp Pro Phe Pro Thr Ser Ser Ile Asp Lys Tyr  
                             260                            265                            270  
 Leu Phe Ile Ala Asp Phe Ala Ile Thr Pro Ala Leu Asn Pro Val Ile  
                             275                            280                            285  
 Tyr Thr Phe Arg Asn Lys Asp Ile Arg Ile Ala Ile Gly Arg Leu Ser  
                             290                            295                            300  
 Lys Arg Ala Val Cys Ser Arg Phe Cys  
 305                            310

<210> 2043  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2043  
 Met Asp Gly Asn Lys Thr Phe Pro Ser Asp Phe Thr Phe Val Gly Leu  
 1                            5                            10                            15  
 Phe Thr His Asn Lys Ala Ser Gly Phe Leu Phe Ser Val Ile Cys Ala  
                             20                            25                            30  
 Thr Phe Phe Met Ala Ile Leu Ala Asn Gly Val Met Ile Phe Leu Ile  
                             35                            40                            45  
 His Ile Asp Pro His Leu His Thr Pro Met Tyr Phe Leu Leu Ser His  
                             50                            55                            60  
 Leu Ser Phe Ile Asp Met Met Tyr Ile Ser Thr Ile Val Pro Lys Ile  
 65                            70                            75                            80  
 Leu Val Asp Tyr Ile Val Gly Lys Gly Ile Ile Ser Phe Ala Ala Cys  
                             85                            90                            95  
 Thr Ala Gln Tyr Phe Leu Tyr Met Gly Phe Val Gly Ala Glu Phe Phe  
                             100                            105                            110  
 Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro  
                             115                            120                            125  
 Leu Arg Tyr Pro Val Leu Met Ser Arg Arg Val Cys Trp Phe Ile Leu  
                             130                            135                            140  
 Ala Ser Ser Trp Phe Gly Gly Ala Leu Asp Ser Phe Leu Leu Thr Pro



145		150		155		160
Ile Thr Met Ser	Leu Pro Phe Cys Ala Ser	His Lys Ile Asn His Phe				
	165	170				
Phe Cys Glu Ala	Pro Thr Met Leu Arg Leu Ala Cys Gly Asp Lys Ala					
	180	185				
Ile Tyr Glu Met Val	Met Tyr Ile Cys Cys Val Val Met Leu Leu Val					
	195	200				
Pro Phe Ser Val Val	Ile Thr Ser Tyr Ala Gln Ile Leu Val Thr Val					
	210	215				
His His Ile Lys Ser	Glu Glu Gly Arg Lys Lys Ala Phe Ala Thr Cys					
225	230	235				
Ser Ser His Val Ile	Val Val Thr Leu Phe Tyr Gly Ala Ala Leu Tyr					
	245	250				
Thr Tyr Met Leu	Pro Gln Ala Tyr His Thr Pro Leu Lys Asp Lys Ile					
	260	265				
Phe Ser Ala Phe Tyr	Thr Ile Leu Thr Pro Leu Leu Asn Pro Val Ile					
	275	280				
Tyr Ser Leu Arg Asn	Arg Asp Val Ala Gly Ala Leu Lys Arg Val Ile					
	290	295				
Ala Arg His Arg Gly	Ala Cys Ser Val Glu Arg Lys					
305	310	315				

<210> 2044

<211> 316

<212> PRT

<213> Mus musculus

<400> 2044

Met Glu Asn His	Asn Leu Thr Met Val Thr Glu Phe Ile Leu Met Gly
1	5
Ile Thr Ala Cys	Pro Glu Leu Gln Pro Pro Leu Phe Val Leu Phe Leu
	20
Ile Ile Tyr Leu	Ile Ser Leu Ile Gly Asn Leu Gly Met Ile Ile Leu
	35
Thr Leu Val Asp	Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg
	50
His Leu Ser Thr	Thr Asp Leu Gly Tyr Thr Thr Ala Val Gly Pro Lys
65	70
Met Leu Gln Asn	Phe Leu Val Asp Gln Asn Thr Ile Ser Phe His Leu
	85
Cys Ala Ile Gln	Leu Ser Phe Phe Ser Met Phe Ile Ala Cys Glu Ile
	100
Tyr Ile Leu Ser	Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys
	115
Pro Leu Phe Tyr	Met Val Ile Met Ser Lys Arg Leu Cys Trp Val Leu
	130
Val Val Ile Pro	Tyr Val Tyr Cys Thr Ile Val Ala Leu Leu Ile Thr
145	150
Ile Lys Ile Phe	Thr Leu Ser Phe Cys Gly Ser Asn Val Ile Ser His
	165
Phe Tyr Cys Asp	Ser Leu Pro Leu Leu Ser Leu Val Cys Ser Asn Thr
	180
Gln Glu Ile Glu	Val Ile Leu Leu Tyr Leu Ser Ala Phe Asn Leu Ile
	195
Ser Ser Leu Leu	Leu Val Ser Tyr Leu Leu Ile Leu Ile Ala
	210
	215
	220

Ile	Ile	Arg	Met	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Thr	Met	Val	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Ile
				245						250					255
Phe	Met	Tyr	Met	Gln	Arg	Lys	Ser	Ser	His	Ser	Phe	Asp	Thr	Asp	Lys
			260					265					270		
Val	Ala	Ser	Ile	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Ala	Leu	His	Arg	Thr
	290					295					300				
Leu	Lys	Lys	Ile	His	Gly	Phe	Leu	Leu	Lys	Leu	Thr				
305					310						315				

<210> 2045  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2045

Met	Ser	Met	Glu	Asn	Ser	Ser	Thr	Gly	Thr	Lys	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Met	Thr	Asp	Asn	Tyr	Gln	Leu	Ala	Val	Leu	Leu	Phe	Gly	Leu	Phe	Phe
			20					25					30		
Ile	Ile	Tyr	Phe	Ile	Thr	Val	Leu	Gly	Asn	Leu	Gly	Leu	Val	Val	Leu
		35				40						45			
Ile	Gln	Val	Ser	His	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
		50				55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Val	Cys	Phe	Ser	Ser	Ile	Thr	Thr	Pro	Lys
65					70					75					80
Thr	Leu	Val	Asn	Leu	Leu	Ser	Gln	Leu	Gln	Glu	Val	Ser	Phe	Phe	Gly
			85						90					95	
Cys	Met	Ala	Gln	Met	Gly	Leu	Phe	Ile	Val	Phe	Ala	Ser	Ala	Glu	Cys
			100					105					110		
Asn	Ile	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Thr	Ala	Ile	Cys	Arg
		115				120						125			
Pro	Leu	Leu	Tyr	His	Ile	Thr	Met	Ser	Lys	Val	Arg	Cys	Leu	Leu	Leu
		130				135					140				
Val	Ala	Gly	Cys	Tyr	Leu	Gly	Gly	Leu	Leu	Asn	Met	Val	Ala	Val	Thr
145					150					155					160
Thr	Ser	Ile	Thr	Gln	Leu	Ser	Phe	Cys	Gln	Pro	Gln	Val	Ile	Ser	His
			165						170					175	
Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Leu	Ala	Cys	Ser	Asp	Pro
			180					185					190		
Trp	Val	Thr	Gln	Val	Leu	Val	Val	Gly	Cys	Gly	Gly	Phe	Thr	Leu	Val
		195					200					205			
Thr	Ser	Val	Met	Val	Ile	Leu	Val	Ser	Tyr	Leu	Ser	Ile	Phe	Met	Thr
		210				215					220				
Ile	Met	Gly	Ile	Pro	Ser	Val	Ser	Gly	Lys	Gln	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Ala	Leu	Tyr	Tyr	Gly	Thr	Thr	Met
			245						250					255	
Tyr	Thr	Tyr	Leu	Gln	Pro	Ser	Arg	His	Gly	Ser	Gln	Ala	Gly	Asn	Arg
			260					265					270		
Met	Ile	Ser	Val	Phe	Tyr	Thr	Met	Leu	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Val	Lys	Val	Ala	Leu	Gln	Lys	Ile

290  
Leu Arg His Ser Gln  
305

295

300

<210> 2046  
<211> 308  
<212> PRT  
<213> Mus musculus

<400> 2046  
Met Ala Asn Leu Ser Thr Val Ser Val Phe Ile Leu Gln Gly Phe Ser  
1 5 10 15  
Ala Val Pro Ala Leu Gln Leu Leu Ser Met Ala Ile Phe Leu Leu Ile  
20 25 30  
Tyr Leu Ala Ala Val Leu Gly Asn Val Ser Ile Met Ile Ala Val Thr  
35 40 45  
Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Ile Lys His Leu  
50 55 60  
Ser Leu Val Asp Leu Cys Ser Thr Ser Thr Thr Leu Pro Arg Ala Leu  
65 70 75 80  
Val Ala Thr Met Ala Asp Thr Lys Glu Ile Ser Leu Pro Ala Cys Ala  
85 90 95  
Ser Gln Leu Phe Ala Phe Val Cys Phe Gly Ser Leu Glu Cys Phe Leu  
100 105 110  
Ile Thr Ala Met Ala Phe Asp Arg Cys Leu Ala Ile Tyr Arg Pro Leu  
115 120 125  
Thr Tyr Gly Val Thr Met Ser Ser Gln Thr Cys Val Ser Leu Val Val  
130 135 140  
Val Ala Trp Val Ser Gly Leu Leu Phe Ser Thr Phe His Met Val Asn  
145 150 155 160  
Thr Phe Ser Leu Pro Phe Cys Gly Pro Asn Met Ile Asp His Phe Phe  
165 170 175  
Cys Asp Ile Pro Pro Leu Met His Leu Ala Cys Gly Asp Thr Gln Gly  
180 185 190  
His Glu Ala Ala Gly Phe Ile Val Ser Gly Cys Val Ile Met Thr Cys  
195 200 205  
Phe Ala Leu Thr Cys Leu Ser Tyr Val Leu Ile Val Tyr Thr Val Val  
210 215 220  
His Ile Arg Ser Ala Ala Gly Arg Trp Lys Ala Phe Ser Thr Cys Ser  
225 230 235 240  
Ser His Leu Ala Thr Val Leu Leu Phe Tyr Gly Thr Gly Ser Ser Ala  
245 250 255  
Tyr Met Gln Pro Thr Ala His Tyr Ser Pro Leu Gln Gly Arg Met Ala  
260 265 270  
Ala Ile Phe Tyr Ser Ile Leu Met Pro Thr Leu Asn Pro Leu Ile Tyr  
275 280 285  
Ser Leu Arg Asn Lys Asp Met Lys Ala Ala Leu Arg Lys Leu Tyr Pro  
290 295 300  
Gln Val Pro Ser  
305

<210> 2047  
<211> 319  
<212> PRT  
<213> Mus musculus

<400> 2047

Met	Leu	Phe	Cys	Ser	Pro	Gln	Met	Glu	Thr	Ser	Leu	Glu	Leu	Thr	Asn
1			5					10						15	
Met	Thr	Arg	Val	Gln	Gln	Phe	Val	Leu	Leu	Gly	Phe	Pro	Thr	Arg	Leu
		20						25					30		
Gly	Ile	Arg	Asp	Ala	Leu	Phe	Val	Phe	Leu	Ser	Leu	Tyr	Leu	Leu	
	35						40				45				
Thr	Leu	Leu	Glu	Asn	Thr	Leu	Ile	Ile	Tyr	Leu	Ile	Cys	Ser	His	Lys
	50					55					60				
Glu	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu	Ser	Cys	Leu
65					70				75						80
Glu	Met	Cys	Tyr	Val	Ser	Ala	Thr	Met	Pro	Thr	Leu	Leu	Val	Gly	Leu
				85					90					95	
Trp	Thr	Gly	Pro	Tyr	His	Ile	Ser	Phe	Ile	Thr	Cys	Met	Thr	Gln	Leu
			100					105					110		
Phe	Phe	Phe	Val	Ser	Leu	Ile	Cys	Thr	Glu	Cys	Thr	Leu	Leu	Ala	Ser
		115					120					125			
Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro
	130					135					140				
Leu	Leu	Met	Arg	Pro	Gln	Val	Cys	Leu	Gly	Leu	Ala	Leu	Ser	Ser	Trp
145					150				155						160
Leu	Gly	Gly	Leu	Val	Val	Ser	Ala	Ile	Lys	Thr	Lys	Cys	Ile	Ala	Ser
			165						170					175	
Leu	Ile	Tyr	Cys	Gly	Pro	Asn	Val	Leu	Asn	Gln	Phe	Phe	Cys	Asp	Val
		180						185					190		
Ser	Pro	Leu	Leu	Asn	Leu	Ser	Cys	Thr	His	Val	Ala	Leu	Thr	Glu	Leu
		195					200					205			
Val	Asp	Phe	Ile	Ser	Ala	Ile	Val	Ile	Phe	Cys	Gly	Thr	Leu	Leu	Val
	210					215					220				
Ser	Leu	Ala	Ser	Tyr	Ser	Ala	Ile	Gly	Met	Ala	Val	Leu	Arg	Met	Pro
225					230				235						240
Ser	Ala	Ala	Ala	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu
			245						250					255	
Val	Val	Val	Gly	Ile	Phe	Tyr	Ser	Ala	Ala	Leu	Phe	Ile	Tyr	Cys	Arg
			260					265					270		
Pro	Ser	Arg	Ile	Lys	Ser	Met	Asp	Leu	Asn	Lys	Val	Leu	Ser	Val	Ile
		275				280						285			
Tyr	Thr	Val	Val	Thr	Pro	Leu	Cys	Asn	Pro	Ile	Ile	Tyr	Cys	Leu	Arg
	290					295					300				
Asn	Lys	Glu	Val	His	Thr	Val	Leu	Lys	Lys	Thr	Leu	His	Trp	Pro	
305					310					315					

<210> 2048

<211> 305

<212> PRT

<213> Mus musculus

<400> 2048

Met	Glu	Leu	Asn	Arg	Thr	Gln	Leu	Thr	Glu	Phe	Val	Leu	Arg	Gly	Ile
1			5					10						15	
Thr	Asp	Arg	Ser	Glu	Leu	Gln	Val	Pro	Leu	Phe	Leu	Val	Phe	Phe	Leu
		20						25					30		
Ile	Tyr	Val	Ile	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Phe	Val	Ile
	35					40					45				
Trp	Lys	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Gly	Asn

50	55	60													
Leu	Ala	Phe	Ala	Asp	Ala	Cys	Thr	Ser	Ser	Ser	Val	Thr	Pro	Lys	Met
65					70					75					80
Leu	Met	Lys	Phe	Ser	Asn	Lys	Asn	Asp	Met	Ile	Ser	Met	Gly	Glu	Cys
				85					90					95	
Phe	Ala	Gln	Phe	Tyr	Phe	Phe	Cys	Leu	Ser	Ala	Thr	Ala	Glu	Cys	Phe
			100					105					110		
Ile	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
		115						120					125		
Leu	Leu	Tyr	Val	Val	Val	Met	Ser	Asn	Arg	Leu	Cys	Ile	Gln	Phe	Ile
	130					135					140				
Gly	Val	Ser	Tyr	Leu	Ile	Gly	Leu	Leu	His	Gly	Leu	Leu	His	Val	Gly
145					150					155					160
Leu	Leu	Phe	Arg	Leu	Met	Phe	Cys	Ser	Ser	Asn	Val	Ile	Asn	His	Phe
				165					170					175	
Tyr	Cys	Glu	Ile	Leu	Pro	Leu	Tyr	Arg	Ile	Ser	Cys	Thr	Asp	Pro	Ser
			180					185					190		
Ile	Asn	Val	Leu	Val	Val	Phe	Ile	Met	Gly	Ile	Leu	Ile	Gln	Val	Ser
	195						200					205			
Thr	Phe	Met	Ser	Ile	Ile	Val	Ser	Tyr	Ile	Leu	Ile	Leu	Phe	Ala	Ile
	210				215						220				
Leu	Arg	Thr	Lys	Ser	Glu	Arg	Gly	Arg	Asn	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Ser	Ser	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Leu	Phe	Ile
			245						250					255	
Ile	Tyr	Val	Leu	Ser	Gly	Ser	Asp	Thr	Asp	Asn	Tyr	Gln	Gly	Lys	Met
		260					265					270			
Tyr	Ser	Leu	Phe	His	Thr	Ile	Ile	Ile	Pro	Leu	Leu	Asn	Pro	Phe	Ile
	275					280						285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile	Gly	Ala	Leu	Arg	Lys	Leu	Arg
	290					295					300				
Glu															
305															

<210> 2049  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2049															
Met	Leu	Gly	Asn	His	Thr	Ser	Ala	Thr	Glu	Phe	Tyr	Leu	Val	Gly	Phe
1				5					10					15	
Pro	Gly	Ser	Val	Asn	Leu	Arg	His	Ile	Leu	Phe	Ala	Thr	Phe	Cys	Phe
			20					25					30		
Phe	Tyr	Leu	Val	Thr	Leu	Val	Gly	Asn	Thr	Val	Ile	Ile	Val	Ile	Val
	35						40					45			
Cys	Val	Asp	Lys	Arg	Leu	Gln	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Val	His
	50					55				60					
Leu	Ser	Ile	Leu	Glu	Ile	Leu	Val	Thr	Thr	Val	Ile	Val	Pro	Val	Met
65					70					75					80
Leu	Trp	Gly	Leu	Leu	Leu	Pro	Gly	Met	Gln	Ser	Ile	Ser	Leu	Ala	Gly
			85					90						95	
Cys	Val	Ala	Gln	Leu	Phe	Leu	Gln	Leu	Ala	Leu	Gly	Thr	Thr	Glu	Phe
		100					105					110			
Ser	Leu	Leu	Gly	Ala	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asn
		115					120					125			

Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	Asn	Ser	Arg	Thr	Cys	Asn	Ser	Val
130						135					140				
Val	Ile	Val	Ser	Trp	Val	Phe	Gly	Phe	Leu	Phe	Gln	Ile	Trp	Pro	Val
145					150					155					160
Tyr	Ala	Thr	Phe	His	Leu	Asn	Tyr	Cys	Lys	Ser	Asn	Val	Val	Asp	Asn
				165					170					175	
Phe	Phe	Cys	Asp	Arg	Gly	Gln	Leu	Leu	Lys	Leu	Ser	Cys	Asn	Asn	Thr
			180					185					190		
Ile	Phe	Ile	Glu	Phe	Ile	Leu	Phe	Leu	Met	Ala	Val	Phe	Val	Leu	Phe
	195						200					205			
Gly	Ser	Leu	Ile	Pro	Thr	Ile	Val	Ser	Tyr	Thr	Tyr	Ile	Ile	Ala	Thr
	210					215					220				
Ile	Leu	Lys	Ile	Pro	Ser	Ala	Ser	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Phe	Thr	Cys	Val	Val	Ile	Gly	Tyr	Gly	Cys	Cys	Leu
				245					250					255	
Phe	Leu	Tyr	Val	Lys	Pro	Lys	Gln	Thr	Gln	Ala	Ala	Asp	Tyr	Asn	Arg
			260					265					270		
Val	Val	Ser	Leu	Met	Ile	Ser	Ile	Val	Thr	Pro	Phe	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Phe	Thr	Leu	Arg	Asn	Asp	Lys	Val	Ile	Glu	Ala	Leu	Arg	Asp	Gly
	290				295						300				
Val	Lys	Arg	Cys	Tyr	His	Phe	Phe	Lys	Ser						
305					310										

<210> 2050  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2050

Met	Leu	Gly	Asn	Tyr	Ser	Ser	Ala	Thr	Lys	Phe	Phe	Leu	Leu	Gly	Phe
1				5					10					15	
Pro	Gly	Thr	Lys	Glu	Leu	His	His	Ile	Leu	Phe	Ala	Thr	Phe	Leu	Leu
			20					25					30		
Leu	Tyr	Ser	Val	Thr	Val	Leu	Gly	Asn	Met	Leu	Ile	Ile	Ile	Val	Val
		35					40					45			
His	Ala	Asp	Lys	Arg	Leu	Gln	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	His
	50					55				60					
Leu	Ser	Val	Leu	Glu	Ile	Leu	Ile	Thr	Ser	Val	Ala	Val	Pro	Tyr	Met
65					70					75					80
Leu	Gln	Gly	Leu	Leu	Arg	Gln	Thr	Gln	Ile	Ile	Ser	Leu	Ser	Ala	Cys
			85					90						95	
Cys	Val	Gln	Leu	Tyr	Leu	Tyr	Leu	Ser	Leu	Gly	Ser	Ser	Glu	Leu	Ile
			100					105					110		
Leu	Leu	Gly	Val	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asn	Pro
		115					120					125			
Leu	Arg	Tyr	Asn	Val	Ile	Met	Ser	Ser	Tyr	Thr	Cys	Thr	Trp	Met	Val
	130					135					140				
Thr	Val	Ser	Trp	Val	Val	Gly	Phe	Leu	Phe	Gln	Ile	Trp	Pro	Val	Tyr
145					150					155					160
Ala	Thr	Phe	Gln	Leu	Thr	Phe	Cys	Lys	Thr	Asn	Leu	Leu	Asp	His	Phe
			165						170					175	
Tyr	Cys	Asp	Leu	Gly	Gln	Leu	Phe	Lys	Leu	Ser	Cys	Glu	Asn	Thr	Leu
			180					185					190		
Phe	Thr	Glu	Leu	Ile	Leu	Phe	Leu	Met	Ala	Val	Phe	Ile	Ile	Val	Gly

	195		200		205										
Ser	Met	Ile	Leu	Thr	Ile	Ile	Ser	Tyr	Thr	Tyr	Ile	Ile	Ser	Thr	Ile
	210				215						220				
Leu	Lys	Ile	Pro	Ser	Ala	Ser	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225					230						235				240
Ala	Ser	His	Phe	Thr	Tyr	Val	Val	Ile	Gly	Tyr	Gly	Ser	Cys	Leu	Phe
					245						250				255
Leu	Tyr	Val	Lys	Pro	Lys	Gln	Thr	Gln	Ala	Ala	Glu	Tyr	Asn	Arg	Val
					260						265				270
Val	Ser	Leu	Leu	Val	Leu	Val	Val	Glu	Pro	Phe	Leu	Asn	Pro	Phe	Ile
					275										285
Phe	Thr	Leu	Arg	Asn	Asp	Lys	Phe	Ile	Glu	Ala	Phe	Arg	Asp	Gly	Val
					290										300
Lys	Arg	Ser	Cys	Gln	Leu	Leu	Lys	His							
305					310										

<210> 2051  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2051

Met	Asp	Gln	Ile	Asn	Glu	Thr	Val	Ala	Phe	Glu	Phe	Val	Leu	Leu	Gly
1				5						10				15	
Leu	Ser	Ser	Ser	Trp	Lys	Asn	Thr	Ile	Phe	Leu	Met	Ser	Thr	Phe	Ser
				20				25					30		
Leu	Leu	Tyr	Val	Ser	Ile	Ile	Val	Gly	Asn	Leu	Phe	Ile	Val	Phe	Leu
				35				40				45			
Val	Ile	Asn	Asp	Ser	Arg	Leu	Gln	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala
				50				55			60				
Asn	Leu	Ser	Leu	Ile	Asp	Val	Gly	Leu	Ser	Ser	Thr	Thr	Val	Pro	Lys
65					70				75						80
Met	Ile	Ser	Asp	Leu	Leu	Lys	Glu	His	Lys	Val	Ile	Ser	Phe	His	Ser
				85					90					95	
Cys	Met	Thr	Gln	Ile	Cys	Ser	Ile	His	Ile	Met	Gly	Gly	Val	Glu	Met
				100				105					110		
Val	Leu	Leu	Ile	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Thr	Ala	Ile	Cys	Lys
				115				120				125			
Pro	Leu	His	Tyr	Met	Ser	Ile	Met	Ser	Pro	Arg	Ile	Cys	Ile	Ser	Phe
				130				135			140				
Val	Ile	Ala	Gly	Trp	Val	Thr	Gly	Val	Val	His	Ala	Met	Ser	Gln	Phe
145					150				155						160
Ser	Phe	Val	Val	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Lys	Val	Asp	Ser
				165					170					175	
Phe	Tyr	Cys	Asp	Phe	Pro	Arg	Ile	Ile	Gln	Leu	Ala	Cys	Thr	Asp	Arg
				180				185				190			
Asp	Thr	Phe	Glu	Phe	Val	Val	Ala	Ala	Asn	Ser	Gly	Phe	Met	Thr	Leu
				195				200			205				
Gly	Thr	Phe	Phe	Leu	Leu	Leu	Leu	Ser	Tyr	Val	Phe	Ile	Leu	Val	Thr
				210				215			220				
Val	Trp	Gln	Arg	Ser	Ser	Gly	Asp	Leu	Ser	Lys	Ala	Leu	Val	Thr	Leu
225					230				235						240
Ser	Ala	His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Thr	Pro	Cys	Met	Phe
				245					250					255	
Leu	Tyr	Val	Trp	Pro	Phe	Pro	Thr	Ser	Ser	Thr	Asp	Lys	Tyr	Leu	Phe
				260				265			270				





<210> 2053  
 <211> 341  
 <212> PRT  
 <213> Mus musculus

<400> 2053  
 Met Gln Val Val Ser Leu Leu Leu Pro Ser Gly Thr Leu Pro Gly Ser  
 1 5 10 15  
 Thr Met Met Pro Cys Asn Ser Thr Ser His Pro Ser Phe Phe Ile Leu  
 20 25 30  
 Gln Gly Ile Pro Gly Met Glu Asp Lys His Lys Trp Ile Ser Ile Pro  
 35 40 45  
 Phe Ser Ser Met Tyr Phe Ile Thr Val Met Gly Asn Cys Thr Ile Leu  
 50 55 60  
 Leu Thr Ile Ser Met Glu Arg Ser Leu His Lys Pro Met Phe Leu Leu  
 65 70 75 80  
 Leu Phe Phe Leu Ala Leu Thr Asp Leu Gly Met Ser Thr Thr Thr Ile  
 85 90 95  
 Pro Lys Val Leu Cys Ile Phe Trp Phe Gly Gln Ser Gln Ile Ser Tyr  
 100 105 110  
 Glu Gly Cys Leu Val Gln Leu Phe Phe Ile His Ser Ile Ser Ala Met  
 115 120 125  
 Gln Ser Ser Val Leu Met Thr Met Ala Phe Asp Arg Tyr Val Ala Ile  
 130 135 140  
 Cys Lys Pro Leu Arg Tyr Ser Thr Ile Leu Ser Asn Ser Arg Ile Gly  
 145 150 155 160  
 Leu Ile Gly Leu Ala Ser Leu Val Arg Ala Ile Leu Phe Ile Leu Pro  
 165 170 175  
 Met Pro Ile Leu Leu Gln Arg Met Pro Phe His Ala Asn Arg Val Ile  
 180 185 190  
 Pro Thr Thr Tyr Cys Glu His Met Ala Val Val Lys Met Val Cys Val  
 195 200 205  
 Asp Thr Thr Phe Asn Arg Ile Tyr Gly Leu Val Val Ala Met Leu Val  
 210 215 220  
 Val Gly Val Asp Ile Ser Ala Ile Ala Ser Ser Tyr Ala Leu Ile Leu  
 225 230 235 240  
 Arg Ala Ile Met His Leu Ser Ser Lys Glu Ala His His Lys Ala Val  
 245 250 255  
 Asn Thr Cys Thr Thr His Ile Cys Val Met Leu Val Ser Tyr Thr Pro  
 260 265 270  
 Ser Leu Phe Ser Phe Leu Thr His Arg Phe Gly Arg Gly Ile Pro Pro  
 275 280 285  
 His Val His Thr Ile Leu Gly Asn Leu Tyr Phe Leu Val Pro Pro Met  
 290 295 300  
 Leu Asn Pro Ile Ile Tyr Gly Val Lys Thr Lys Glu Phe Arg Asp Lys  
 305 310 315 320  
 Ile Thr Lys Tyr Leu Tyr Arg Arg Lys Glu Pro Ile Ile Phe Ser His  
 325 330 335  
 Asn Gln Lys Leu Val  
 340

<210> 2054  
 <211> 327  
 <212> PRT  
 <213> Mus musculus

<400> 2054

```
Met Glu Arg Arg Asn His Thr Gly Arg Val Ser Glu Phe Val Leu Leu
 1          5          10          15
Gly Phe Pro Ala Pro Ala Pro Leu Arg Ala Leu Leu Phe Phe Leu Ser
          20          25          30
Leu Leu Ala Tyr Val Leu Val Leu Thr Glu Asn Ile Leu Ile Ile Thr
          35          40          45
Ala Ile Arg Asn His Pro Thr Leu His Lys Pro Met Tyr Phe Phe Leu
          50          55          60
Ala Asn Met Ser Phe Leu Glu Ile Trp Tyr Val Thr Val Thr Ile Pro
65          70          75          80
Lys Met Leu Ala Gly Phe Ile Gly Ser Glu Glu Asn His Gly Gln Leu
          85          90          95
Ile Ser Phe Glu Ala Cys Met Thr Gln Leu Tyr Phe Phe Leu Gly Leu
          100          105          110
Gly Cys Thr Glu Cys Val Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr
          115          120          125
Val Ala Ile Cys His Pro Leu His Tyr Pro Val Ile Val Ser Ser Arg
          130          135          140
Leu Cys Val Gln Met Ala Ala Gly Ser Trp Ala Gly Gly Phe Gly Ile
145          150          155          160
Ser Met Val Lys Val Phe Leu Ile Ser Arg Leu Ser Tyr Cys Gly Pro
          165          170          175
Asn Thr Ile Asn His Phe Phe Cys Asp Val Ser Pro Leu Leu Asn Leu
          180          185          190
Ser Cys Thr Asp Met Ser Thr Ala Glu Leu Thr Asp Phe Ile Leu Ala
          195          200          205
Ile Phe Ile Leu Leu Gly Pro Leu Ser Val Thr Gly Ala Ser Tyr Met
          210          215          220
Ala Ile Thr Gly Ala Val Met Arg Ile Pro Ser Ala Ala Gly Arg His
225          230          235          240
Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Val Val Ile Ile Phe
          245          250          255
Tyr Ala Ala Ser Ile Phe Ile Tyr Ala Arg Pro Lys Ala Leu Ser Ala
          260          265          270
Phe Asp Thr Asn Lys Leu Val Ser Val Leu Tyr Ala Val Ile Val Pro
          275          280          285
Leu Leu Asn Pro Ile Ile Tyr Cys Leu Arg Asn Gln Glu Val Lys Lys
          290          295          300
Ala Leu Arg Arg Thr Leu His Leu Ala Gln Gly Gln Asp Ala Asn Thr
305          310          315          320
Lys Lys Ser Ser Arg Asp Gly
          325
```

<210> 2055

<211> 320

<212> PRT

<213> Mus musculus

<400> 2055

```
Met Arg Asn His Thr Val Met Thr Thr Phe Ile Leu Leu Gly Leu Thr
 1          5          10          15
Asp Asp Pro Gly Leu Gln Leu Leu Phe Phe Val Ile Leu Phe Leu Thr
          20          25          30
Tyr Ile Leu Ser Ile Met Gly Asn Leu Thr Ile Ile Ile Leu Thr Leu
```



Ala	Ile	Leu	Thr	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Leu
	115						120					125			
Pro	Leu	His	Tyr	Glu	Val	Ile	Met	Ser	Pro	Arg	Lys	Cys	Thr	Trp	Ala
	130					135					140				
Val	Ala	Ala	Val	Trp	Leu	Ser	Gly	Gly	Ile	Ser	Gly	Thr	Leu	Phe	Thr
145					150					155					160
Ala	Ser	Thr	Leu	Ser	Ile	Arg	Phe	Cys	Gly	His	Lys	Ile	Ile	His	Gln
			165						170					175	
Phe	Phe	Cys	Asp	Ile	Pro	Gln	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asn	Asp
			180					185					190		
Asp	Phe	Gly	Leu	Leu	Lys	Val	Ser	Thr	Phe	Ile	Ala	Val	Met	Gly	Phe
	195						200					205			
Ala	Cys	Phe	Val	Gly	Ile	Ala	Phe	Ser	Tyr	Cys	Gln	Ile	Phe	Ser	Thr
	210					215					220				
Val	Leu	Arg	Met	Pro	Ser	Ala	Glu	Gly	Arg	Ser	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Leu	Pro	His	Leu	Phe	Val	Val	Ser	Phe	Phe	Leu	Ser	Thr	Gly	Ile
			245						250					255	
Cys	Ala	Tyr	Leu	Lys	Pro	Thr	Ser	Asp	Ser	Pro	Thr	Ala	Leu	Asp	Leu
			260					265					270		
Met	Leu	Ser	Ile	Phe	Tyr	Thr	Val	Leu	Pro	Pro	Thr	Leu	Asn	Pro	Val
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Glu	Ser	Leu	Lys	Arg	Ala	Val	Lys	Lys	Leu
	290				295						300				
Leu	Leu	Ser	Glu	Glu	Phe	Ile	Gly	Lys	Asn	Tyr	Val	Cys	Ser	Val	Phe
305					310					315					320
Ser	Ala	Cys													

<210> 2057  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 2057

Met	Glu	Pro	Gln	Asn	Leu	Ser	Lys	Val	Thr	Glu	Phe	Gln	Leu	Leu	Gly
1				5					10					15	
Phe	Gln	Asn	Leu	Leu	Glu	Trp	Gln	Ser	Leu	Leu	Phe	Ala	Ile	Phe	Leu
		20					25						30		
Cys	Phe	Tyr	Leu	Leu	Thr	Ile	Thr	Gly	Asn	Met	Val	Ile	Ile	Gly	Val
	35					40						45			
Val	Ser	Glu	Asp	Pro	Arg	Leu	Arg	Ala	Pro	Met	Tyr	Thr	Phe	Leu	Gln
	50					55					60				
His	Leu	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Thr	Ser	Thr	Thr	Val	Pro	Leu
65					70					75					80
Leu	Leu	Ser	Asn	Leu	Ala	Ser	Trp	Gly	His	Met	Leu	Ser	Phe	Ser	Ala
			85						90					95	
Cys	Met	Ala	Gln	Leu	Tyr	Phe	Phe	Val	Phe	Phe	Gly	Ala	Thr	Glu	Cys
		100						105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	His
	115						120					125			
Pro	Leu	His	Tyr	Ser	Leu	Leu	Met	Ser	Pro	Asp	Asn	Cys	Ala	Ala	Leu
	130					135						140			
Val	Thr	Val	Ser	Trp	Val	Thr	Gly	Val	Gly	Thr	Gly	Phe	Leu	Pro	Ser
145					150					155					160
Leu	Leu	Ile	Ser	Lys	Leu	Asp	Phe	Cys	Gly	Pro	Asn	Arg	Ile	Asn	His



Phe	Thr	Ile	Leu	Ile	Ser	Tyr	Val	Phe	Ile	Leu	Ala	Asn	Ile	Leu	Asn
225					230					235					240
Ile	Lys	Ser	Thr	Gln	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser
				245					250					255	
His	Ile	Met	Ala	Ile	Ser	Leu	Phe	Phe	Gly	Ser	Gly	Ala	Phe	Met	Tyr
			260					265					270		
Leu	Asn	His	Ser	Gly	Ser	Met	Asp	Gln	Gly	Lys	Ile	Ser	Ser	Val	Phe
		275					280					285			
Tyr	Thr	Asn	Val	Val	Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg
	290					295					300				
Asn	Lys	Asp	Val	Lys	Ile	Ala	Leu	Lys	Lys	Val	Met	Met	Arg	Val	His
305					310					315					320
Ser	Arg	Phe	Ile	Ser											
				325											

<210> 2059  
 <211> 327  
 <212> PRT  
 <213> Mus musculus

<400> 2059

Met	Asn	Ser	Glu	Asn	Phe	Thr	Arg	Ser	Arg	Val	Met	Pro	Ala	Glu	Phe
1				5					10					15	
Ile	Leu	Leu	Gly	Ile	Thr	Asn	Arg	Trp	Asp	Met	Arg	Val	Thr	Leu	Phe
			20					25					30		
Leu	Ile	Phe	Leu	Pro	Ile	Tyr	Leu	Val	Ser	Leu	Leu	Gly	Asn	Val	Gly
		35					40					45			
Met	Val	Leu	Leu	Ile	Arg	Ile	Asp	Ala	Arg	Leu	His	Thr	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Ala	Asn	Leu	Ser	Leu	Leu	Asp	Ala	Phe	Tyr	Ser	Ser	Ala
65				70					75						80
Ile	Gly	Pro	Lys	Met	Leu	Val	Asp	Leu	Leu	Leu	Ser	Arg	Ala	Thr	Ile
			85					90						95	
Pro	Tyr	Val	Ala	Cys	Ala	Leu	Gln	Met	Phe	Val	Phe	Ala	Gly	Leu	Ala
			100					105					110		
Asp	Ala	Glu	Cys	Cys	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val
		115					120					125			
Ala	Ile	Gly	Asn	Pro	Leu	Leu	Tyr	Thr	Thr	Val	Met	Ser	Pro	Arg	Leu
	130					135					140				
Cys	Leu	Ala	Leu	Leu	Gly	Ala	Ser	Gly	Leu	Gly	Gly	Ala	Val	Ser	Ala
145					150				155						160
Phe	Val	His	Thr	Thr	Phe	Thr	Phe	Arg	Leu	Ser	Phe	Cys	Gly	Ser	Leu
			165						170					175	
Glu	Val	Asn	Ser	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Ile	Ser
			180					185					190		
Cys	Asn	Asp	Thr	Ser	Leu	Asn	Glu	Leu	Leu	Leu	Phe	Ala	Val	Cys	Gly
		195					200					205			
Phe	Ile	Gln	Thr	Thr	Thr	Val	Leu	Ala	Ile	Ala	Val	Ser	Tyr	Gly	Phe
	210					215					220				
Ile	Ala	Val	Ala	Val	Ile	Arg	Met	Gln	Ser	Ala	Glu	Gly	Arg	Arg	Arg
225					230					235					240
Ala	Ala	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Ala	Val	Ser	Ile	Leu	Tyr
			245						250					255	
Gly	Thr	Leu	Ile	Phe	Met	Tyr	Leu	Arg	Pro	Ser	Ser	Ser	Tyr	Ala	Leu
		260					265						270		
Asp	Thr	Asp	Lys	Met	Ala	Ser	Val	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Ala

	275		280		285										
Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Ala
	290					295					300				
Phe	Gln	Arg	Thr	Trp	His	Arg	Phe	Cys	Cys	Pro	Gly	Arg	Ser	Thr	Arg
305					310					315					320
Asp	Trp	Pro	Gln	Glu	Ala	His									
			325												

<210> 2060  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 2060

Met	Gly	Gln	Ser	Asn	Asn	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Phe	Thr
1				5					10					15	
Gln	Asp	Pro	Ala	Gly	Gln	Lys	Ala	Leu	Phe	Val	Met	Phe	Ser	Leu	Met
		20						25					30		
Tyr	Ile	Ala	Thr	Met	Val	Gly	Asn	Leu	Leu	Ile	Val	Gly	Thr	Val	Ile
	35					40						45			
Ala	Ser	Pro	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Ser	Leu
	50					55					60				
Ser	Leu	Met	Asp	Ala	Val	Tyr	Ser	Thr	Ala	Ile	Ser	Pro	Lys	Leu	Ile
65					70					75					80
Val	Asp	Leu	Leu	Arg	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Arg	Ala	Cys	Ile
			85						90					95	
Ser	Gln	Leu	Phe	Ile	Glu	His	Leu	Phe	Gly	Gly	Val	Asp	Ile	Val	Ile
		100							105				110		
Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Leu	Ile	Ile	Met	Asn	Arg	Arg	Val	Cys	Ile	Leu	Phe	Leu	Val
	130					135					140				
Met	Ala	Trp	Val	Gly	Gly	Phe	Val	His	Ser	Leu	Phe	Gln	Val	Leu	Ala
145					150					155					160
Val	Tyr	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asp	His	Phe	Gly
			165						170					175	
Cys	Asp	Ile	Tyr	Pro	Leu	Leu	Leu	Leu	Ala	Cys	Thr	Asp	Thr	Tyr	Phe
		180						185					190		
Leu	Gly	Leu	Thr	Ile	Ile	Ala	Asn	Gly	Gly	Ala	Met	Cys	Ile	Val	Ile
	195						200					205			
Phe	Ile	Leu	Leu	Leu	Leu	Ser	Tyr	Ala	Ile	Ile	Leu	Arg	Ser	Leu	Gln
	210					215					220				
Asn	His	Ser	Lys	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ile	Ser
225					230						235				240
His	Ile	Thr	Val	Val	Phe	Leu	Phe	Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr
			245						250					255	
Val	Arg	Pro	Val	Ser	Ser	Phe	Pro	Ile	Asp	Lys	Ser	Ile	Thr	Val	Ile
		260						265					270		
Tyr	Thr	Ile	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
	275						280					285			
Asn	Ser	Glu	Met	Lys	Asn	Ser	Met	Glu	Lys	Leu	Leu	Gln	Lys	Met	Leu
	290					295						300			
Ser	Pro	Asn	Arg	Ile	Lys	Leu	Ser	Ser	Cys	Cys	Ser	Tyr	Asp		
305					310					315					

<210> 2061  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2061

Met	Gly	Asn	His	Thr	Thr	Val	Asn	Met	Phe	Leu	Leu	Trp	Gly	Phe	Ser
1				5					10					15	
Ser	Phe	Pro	Glu	Leu	His	Asn	Leu	Leu	Phe	Val	Val	Val	Leu	Leu	Ser
			20					25					30		
His	Val	Thr	Ile	Ile	Leu	Ala	Asn	Ala	Phe	Ile	Met	Val	Ala	Ile	Lys
		35					40					45			
Leu	Asn	His	Asn	Leu	His	Ala	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Ala	Leu
	50					55					60				
Ser	Phe	Ser	Glu	Thr	Cys	Thr	Thr	Met	Val	Ile	Leu	Pro	Arg	Leu	Leu
65					70					75					80
Val	Asp	Leu	Ile	Ser	Lys	Asn	Lys	Ala	Ile	Ser	Leu	Pro	Glu	Cys	Ala
				85					90					95	
Thr	Gln	Met	Phe	Phe	Phe	Phe	Gly	Leu	Gly	Gly	Asn	Asn	Cys	Phe	Ile
			100					105					110		
Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Thr	Ala	Ile	His	Asn	Pro	Leu
		115					120					125			
His	Tyr	Pro	Ile	Leu	Met	Thr	Gln	Lys	Ile	Cys	Leu	His	Leu	Ile	Val
	130					135					140				
Ala	Ser	Gly	Val	Leu	Gly	Phe	Ser	Ile	Ser	Leu	Cys	Ile	Val	Ile	Thr
145					150					155					160
Ile	Phe	Asn	Leu	Ser	Phe	Cys	Asn	Ser	Asn	Ile	Ile	Gln	His	Phe	Phe
			165						170					175	
Cys	Asp	Ile	Asp	Pro	Val	Val	Ser	Leu	Ala	Cys	Asn	Leu	Thr	Phe	Tyr
		180						185					190		
His	Lys	Val	Ile	Leu	Phe	Ala	Leu	Thr	Ala	Phe	Val	Leu	Val	Gly	Ser
	195						200					205			
Phe	Ile	Phe	Ile	Met	Val	Ser	Tyr	Val	Phe	Ile	Val	Thr	Val	Val	Ile
	210					215					220				
Lys	Met	Pro	Ser	Ala	Lys	Gly	Arg	Tyr	Lys	Thr	Phe	Ser	Thr	Cys	Ser
225				230						235					240
Ser	His	Phe	Thr	Val	Val	Phe	Ile	His	Tyr	Gly	Phe	Ala	Ser	Phe	Val
			245						250					255	
Tyr	Leu	Arg	Pro	Lys	Asn	Ser	Tyr	Ser	Phe	Arg	Asp	Ala	Thr	Leu	Leu
		260						265					270		
Ala	Val	Thr	Tyr	Thr	Ile	Leu	Thr	Pro	Leu	Leu	Asn	Pro	Ile	Ile	Tyr
		275					280					285			
Ser	Leu	Arg	Asn	Lys	Gly	Ile	Gln	Thr	Ala	Leu	Lys	Lys	Asp	Ile	Gly
	290					295					300				
Asn	Ile	Ile	Arg	Phe	Phe	Ser	Lys	Met	Val	Asn	Lys	Lys	Ala	Gln	Lys
305					310					315					320
Ile															

<210> 2062  
 <211> 325  
 <212> PRT  
 <213> Mus musculus

<400> 2062

Met Tyr Val Ala Asn Ser Ser Arg Met Asn Ala Phe Ile Leu Leu Gly



1				5				10					15				
Leu	Thr	Asp	Asn	Pro	Asp	Leu	Glu	Ala	Pro	Leu	Phe	Ile	Ile	Phe	Asn		
			20					25					30				
Leu	Ile	Tyr	Leu	Ile	Thr	Leu	Ile	Gly	Asn	Leu	Gly	Met	Ile	Val	Leu		
		35					40					45					
Ile	Trp	Phe	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Ser		
	50					55					60						
His	Leu	Ser	Leu	Ala	Asp	Cys	Val	Tyr	Ser	Ser	Ala	Val	Thr	Pro	Lys		
65					70					75					80		
Val	Met	Val	Gly	Leu	Thr	Gly	Asp	Lys	Val	Ile	Ser	Tyr	Gly	Gly			
			85					90					95				
Cys	Val	Ala	Gln	Met	Phe	Phe	Phe	Val	Thr	Phe	Ala	Ser	Val	Asp	Cys		
			100					105					110				
Phe	Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	His	Ala	Ala	Val	Cys	Lys		
		115					120					125					
Pro	Leu	His	Tyr	Thr	Thr	Asn	Met	Thr	Thr	Ser	Val	Cys	Ala	Cys	Met		
	130					135					140						
Val	Ile	Ala	Cys	Tyr	Val	Phe	Ser	Leu	Ala	Glu	Ser	Ser	Val	Tyr	Thr		
145					150					155					160		
Gly	Phe	Ile	Phe	Asp	Leu	Ser	Phe	Cys	His	Ser	Asn	Val	Ile	His	His		
			165					170					175				
Phe	Phe	Cys	Asp	Ile	Pro	Pro	Ile	Leu	Asn	Leu	Ser	Cys	Ser	Asp	Ile		
		180						185				190					
Tyr	Thr	Asn	Glu	Ile	Val	Leu	Phe	Ile	Ile	Thr	Ser	Phe	Asn	Val	Phe		
	195					200						205					
Phe	Ser	Leu	Ile	Val	Ile	Leu	Thr	Ser	Tyr	Ala	Phe	Ile	Phe	Ile	Ala		
	210					215					220						
Ile	Leu	Arg	Met	His	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Ser	Ser	Thr		
225					230					235					240		
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Ile	Phe	Tyr	Gly	Thr	Ile	Ile		
			245					250					255				
Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser	Ser	His	Ser	Met	Asp	Asn	Asp	Gln		
		260						265				270					
Met	Ala	Ser	Val	Phe	Tyr	Thr	Thr	Val	Val	Pro	Met	Leu	Asn	Pro	Val		
	275						280					285					
Val	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	His	Ser	Ala	Phe	Lys	Lys	Ala		
	290				295						300						
Ile	Glu	Lys	Leu	Lys	Ser	Ala	Gln	His	Gln	Val	Leu	Ile	Arg	Asp	Leu		
305					310					315					320		
Tyr	Ser	Leu	Cys	Asn													
			325														

<210> 2063  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2063  
 Met Glu Glu Asn Gln Thr Thr Val Thr Glu Phe Ile Leu Leu Gly Phe  
 1 5 10 15  
 Cys Leu Gly Pro Arg Ile His Leu Val Leu Phe Leu Leu Phe Ser Leu  
 20 25 30  
 Phe Tyr Thr Leu Thr Ile Leu Gly Asn Gly Thr Ile Leu Ala Met Ile  
 35 40 45  
 Cys Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser His  
 50 55 60

Leu	Ala	Ile	Val	Asp	Met	Ala	Tyr	Ala	Cys	Asn	Thr	Val	Pro	Gln	Thr
65					70					75					80
Leu	Ile	Asn	Leu	Leu	Asp	Glu	Thr	Arg	Pro	Ile	Thr	Phe	Ala	Gly	Cys
			85						90					95	
Met	Thr	Gln	Thr	Tyr	Leu	Phe	Leu	Thr	Phe	Ala	Ile	Thr	Glu	Cys	Leu
			100					105					110		
Leu	Leu	Val	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro
		115					120					125			
Leu	His	Tyr	Thr	Val	Ile	Met	Asn	Trp	Arg	Val	Cys	Thr	Ile	Met	Ala
	130					135					140				
Ala	Val	Ser	Trp	Ile	Val	Ser	Phe	Leu	Leu	Ser	Leu	Val	His	Leu	Leu
145					150					155					160
Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	His	Glu	Ile	Asn	His	Phe
			165						170					175	
Phe	Cys	Glu	Ile	Leu	Ser	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Thr
			180					185					190		
Leu	Asn	Gln	Val	Val	Ile	Phe	Ala	Ala	Cys	Val	Phe	Thr	Leu	Val	Gly
		195					200					205			
Pro	Leu	Cys	Phe	Val	Leu	Val	Ser	Tyr	Thr	Arg	Ile	Leu	Val	Ala	Ile
	210					215					220				
Leu	Arg	Ile	Gln	Ser	Gly	Glu	Arg	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225				230						235					240
Ser	Ser	His	Leu	Cys	Val	Val	Gly	Leu	Phe	Phe	Gly	Ser	Ala	Ile	Val
			245						250					255	
Met	Tyr	Met	Ala	Pro	Lys	Ser	Gln	His	Pro	Glu	Glu	Gln	Gln	Lys	Ile
			260				265						270		
Leu	Phe	Leu	Phe	Tyr	Ser	Phe	Phe	Asn	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Ala	Glu	Val	Lys	Gly	Ala	Leu	Arg	Arg	Ala	Leu
	290					295					300				
Cys	Lys	Glu	Ser	His	Ser	Cys	Leu	Val	Trp	Cys	Ser	His	His	Lys	Pro
305					310					315					320
Trp															

<210> 2064  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2064

Met	Glu	Glu	Asn	Gln	Thr	Met	Val	Thr	Glu	Phe	Val	Leu	Leu	Gly	Phe
1				5					10					15	
Cys	Leu	Gly	Pro	Arg	Ile	His	Leu	Val	Leu	Phe	Leu	Leu	Phe	Ser	Leu
			20					25					30		
Phe	Tyr	Thr	Leu	Thr	Ile	Leu	Gly	Asn	Gly	Thr	Ile	Leu	Ala	Met	Ile
		35					40					45			
Cys	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55				60					
Leu	Ala	Ile	Val	Asp	Met	Ala	Tyr	Ala	Cys	Asn	Thr	Val	Pro	Gln	Thr
65					70					75					80
Leu	Ile	Asn	Leu	Leu	Asp	Glu	Thr	Arg	Pro	Ile	Thr	Phe	Ala	Gly	Cys
			85						90					95	
Met	Thr	Gln	Thr	Phe	Leu	Phe	Leu	Ala	Phe	Ala	His	Thr	Glu	Cys	Val
			100					105					110		
Leu	Leu	Val	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro



Phe	Cys	Asp	Ile	Thr	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr	Arg	Pro	Val
			180					185					190		
Val	Asn	Glu	Met	Leu	Ile	Phe	Thr	Glu	Gly	Val	Ala	Val	Val	Val	Ser
		195					200					205			
Pro	Ile	Phe	Phe	Ile	Phe	Gly	Ser	Tyr	Val	Arg	Ile	Gly	Ile	Val	Ile
	210					215					220				
Ala	His	Met	His	Ser	Val	Ala	Ala	Leu	Gln	Lys	Ala	Leu	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Val	Leu	Val	Val	Met	Phe	Leu	Phe	Gly	Ser	Leu	Val	His
			245					250						255	
Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ser	Tyr	Asn	Leu	Glu	Gln	Asp	Arg	Gln
			260					265					270		
Val	Ala	Ile	Phe	Tyr	Thr	Leu	Ile	Ser	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Val	Lys	Gly	Ala	Leu	Trp	Arg	Leu	Phe
	290					295					300				
Arg	Lys	Leu	Tyr	Leu	Arg	Gln	Cys	Pro	Ala	Trp	Ile	Ser	His	Asn	Thr
305					310					315					320
Cys	Gln														

<210> 2066  
 <211> 326  
 <212> PRT  
 <213> Mus musculus

<400> 2066

Met	Pro	Leu	Leu	Leu	Phe	Ser	Arg	Ala	Ala	Cys	Ala	Met	Ser	Met	Arg
1				5					10					15	
Asn	His	Thr	Ser	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Ile	Ser	Asn	Thr
			20					25					30		
Glu	Gly	Leu	Glu	Ser	Met	Leu	Phe	Ala	Leu	Phe	Leu	Val	Phe	Tyr	Val
		35					40					45			
Phe	Ala	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Phe	Leu	Thr	Ile	Leu	Ala	Ser
	50				55						60				
Pro	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu	Ala	Val
65					70					75					80
Phe	Asp	Ile	Phe	Phe	Pro	Ser	Val	Asn	Ser	Pro	Lys	Met	Met	Asp	Tyr
			85					90						95	
Leu	Val	Arg	Gln	Gly	Arg	Thr	Ile	Ser	Tyr	Gln	Gly	Cys	Ala	Ser	Gln
			100					105					110		
Ile	Phe	Phe	Tyr	His	Thr	Leu	Gly	Cys	Thr	Glu	Cys	Phe	Leu	Tyr	Thr
		115					120					125			
Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Tyr	Pro	Met	Arg	Tyr
	130					135					140				
Thr	Val	Ile	Met	Asn	Pro	Arg	Val	Cys	Thr	Cys	Phe	Thr	Val	Gly	Thr
145					150					155					160
Trp	Leu	Gly	Gly	Phe	Val	His	Gly	Ser	Ile	Leu	Thr	Phe	Leu	Ile	Phe
				165				170						175	
Lys	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Glu	Val	Asp	Ser	Phe	Phe	Cys	Asp
			180					185					190		
Ile	Pro	Val	Val	Leu	Ser	Leu	Ala	Cys	Ala	Asp	Thr	Ser	Leu	Ala	Gln
	195						200					205			
Thr	Val	Ser	Phe	Thr	Asn	Val	Gly	Val	Val	Ala	Leu	Thr	Cys	Phe	Leu
	210					215					220				
Leu	Val	Leu	Thr	Ser	Tyr	Thr	Arg	Ile	Val	Ile	Ser	Ile	Leu	Lys	Ile

225		230		235		240									
Arg	Ser	Ser	Glu	Gly	Arg	Arg	Arg	Ala	Phe	Ser	Thr	Cys	Ser	Ala	His
			245						250					255	
Phe	Thr	Ser	Ile	Leu	Leu	Phe	Tyr	Gly	Pro	Val	Ile	Leu	Val	Tyr	Leu
		260						265					270		
Arg	Pro	Ala	Ser	Ser	Pro	Trp	Leu	Asp	Ser	Val	Val	Gln	Val	Phe	Asn
		275					280					285			
Asn	Val	Val	Thr	Pro	Ser	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn
	290					295					300				
Lys	Glu	Val	Lys	Leu	Ala	Leu	Arg	Lys	Met	Leu	Ser	Gln	Ala	Met	Gln
305					310					315					320
Pro	Leu	Gly	Tyr	Lys	Glu										
				325											

<210> 2067

<211> 322

<212> PRT

<213> Mus musculus

<400> 2067

Met	Glu	Lys	Ile	Thr	Ser	Ala	Val	Asp	Val	His	Asn	Ile	Pro	Leu	Lys
1			5					10					15		
Asn	Met	Thr	Glu	Ala	Thr	Met	Phe	Ile	Leu	Leu	Gly	Phe	Thr	Asp	Asp
		20					25					30			
Phe	Glu	Leu	Gln	Val	Phe	Leu	Phe	Leu	Leu	Phe	Leu	Ala	Ile	Tyr	Leu
	35					40					45				
Phe	Thr	Leu	Val	Gly	Asn	Phe	Gly	Leu	Val	Val	Leu	Val	Ile	Gly	Asp
	50				55					60					
Cys	Arg	Leu	His	Asn	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Val	Leu	Ser	Phe
65				70					75						80
Leu	Asp	Ala	Cys	Tyr	Ser	Thr	Val	Val	Thr	Pro	Lys	Met	Leu	Val	Asn
		85					90					95			
Phe	Leu	Ser	Glu	Asn	Lys	Ser	Ile	Ser	Phe	Leu	Ala	Cys	Ala	Thr	Gln
		100					105					110			
Met	Leu	Leu	Phe	Val	Ser	Leu	Gly	Thr	Thr	Glu	Cys	Phe	Leu	Leu	Ala
	115					120					125				
Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Tyr	Asn	Pro	Leu	Leu	Tyr
	130				135						140				
Thr	Val	Ala	Met	Ser	Pro	Arg	Val	Tyr	Leu	Pro	Leu	Ile	Ile	Ala	Ser
145				150						155					160
Tyr	Ala	Gly	Gly	Val	Val	His	Gly	Ala	Ile	His	Thr	Val	Ala	Thr	Phe
		165					170						175		
Ser	Leu	Ser	Phe	Cys	Gly	Ser	Asn	Glu	Ile	Lys	His	Val	Phe	Cys	Asp
		180					185					190			
Ile	Pro	Ala	Leu	Leu	Ala	Leu	Ser	Cys	Ser	Asp	Thr	His	Thr	Asn	Glu
	195					200						205			
Leu	Leu	Val	Leu	Tyr	Leu	Val	Gly	Leu	Ile	Glu	Ile	Val	Thr	Ile	Leu
	210				215					220					
Ile	Val	Leu	Val	Ser	Tyr	Gly	Phe	Ile	Leu	Phe	Ala	Ile	Leu	Asn	Met
225				230						235					240
His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Val	Phe	Ser	Thr	Cys	Gly	Ser	His
		245							250					255	
Leu	Thr	Gly	Val	Ser	Ile	Tyr	His	Gly	Thr	Ile	Leu	Phe	Thr	Tyr	Met
		260					265					270			
Arg	Pro	Ser	Ser	Tyr	Ala	Ser	Asn	His	Asp	Met	Val	Val	Ser	Ile	
		275					280					285			

Phe	Tyr	Thr	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu
290						295					300				
Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Phe	Asn	Lys	Leu	Trp	Arg	Lys	Cys
305					310					315					320
Asp	Ser														

<210> 2068  
 <211> 330  
 <212> PRT  
 <213> Mus musculus

<400> 2068

Met	Ser	Ile	His	Ser	Pro	Gly	Tyr	Thr	Val	Arg	Arg	Ile	Pro	Val	Asn
1				5					10					15	
Asn	Val	Thr	Asp	Thr	Thr	Met	Phe	Ile	Leu	Thr	Gly	Phe	Thr	Asp	Asp
		20						25					30		
Ala	Asp	Leu	Gln	Val	Leu	Leu	Phe	Leu	Leu	Phe	Phe	Val	Ile	Tyr	Leu
	35						40					45			
Phe	Thr	Leu	Ile	Gly	Asn	Leu	Gly	Leu	Val	Leu	Leu	Val	Ile	Gly	Asp
	50				55					60					
Ser	Arg	Leu	His	Asn	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Val	Leu	Ser	Phe
65				70					75						80
Leu	Asp	Ala	Cys	Tyr	Ser	Thr	Val	Val	Thr	Pro	Lys	Met	Leu	Val	Asn
			85						90					95	
Phe	Ile	Ser	Asn	Asp	Lys	Ser	Ile	Ser	Tyr	Pro	Gly	Cys	Val	Thr	Glu
			100					105					110		
Met	Phe	Leu	Phe	Val	Thr	Phe	Gly	Thr	Thr	Glu	Cys	Phe	Leu	Leu	Ala
	115						120					125			
Ala	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Tyr	Asn	Pro	Leu	Leu	Tyr
	130					135					140				
Ala	Val	Lys	Met	Ser	Pro	Arg	Val	Tyr	Ile	Pro	Leu	Ile	Ile	Ala	Cys
145					150					155					160
Tyr	Ser	Gly	Gly	Ile	Met	His	Ala	Thr	Ile	His	Thr	Val	Ala	Thr	Phe
			165						170					175	
Ser	Leu	Ser	Phe	Cys	Ala	Ser	Asn	Glu	Ile	Arg	His	Val	Phe	Cys	Asp
		180						185					190		
Ile	Pro	Pro	Leu	Leu	Ala	Ile	Ser	Cys	Ser	Asn	Thr	Asn	Ile	Asn	Gln
	195					200						205			
Leu	Leu	Leu	Phe	Tyr	Cys	Val	Gly	Ser	Ile	Glu	Ile	Ile	Thr	Ile	Leu
	210				215						220				
Ile	Val	Leu	Val	Ser	Tyr	Ser	Phe	Ile	Leu	Phe	Ala	Ile	Leu	Lys	Met
225				230						235					240
Asn	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ile	Phe	Ser	Thr	Cys	Gly	Ser	His
			245						250					255	
Leu	Thr	Gly	Val	Ser	Ile	Tyr	His	Gly	Thr	Ile	Leu	Phe	Met	Tyr	Val
		260						265					270		
Arg	Pro	Ser	Ser	Asn	Tyr	Ala	Leu	Glu	His	Asp	Met	Ile	Val	Ser	Thr
	275					280						285			
Phe	Tyr	Thr	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu
	290				295					300					
Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Met	Lys	Lys	Ile	Phe	Glu	Arg	Asn
305					310					315					320
Phe	Phe	Met	Asn	Lys	Val	His	Phe	Lys	Leu						
			325						330						

<210> 2069  
 <211> 330  
 <212> PRT  
 <213> Mus musculus

<400> 2069

Met	Ala	Phe	Leu	Glu	Asp	Gly	Asn	His	Thr	Ile	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Asp	Ile	Leu	Phe	Thr
			20					25					30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr
		35					40					45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Ile	Gly	Ile	Ser	Ser	Ser	Val
65					70					75					80
Thr	Pro	Asn	Met	Leu	Ala	Asn	Phe	Leu	Val	Lys	Pro	Asn	Thr	Ile	Ser
			85						90					95	
Tyr	Ile	Gly	Cys	Ser	Ile	Gln	Phe	Thr	Ser	Ala	Val	Phe	Leu	Ala	Thr
			100					105					110		
Val	Glu	Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Arg	Glu	Ala	Cys
	130					135					140				
Ile	Gln	Leu	Val	Val	Gly	Ser	Tyr	Ile	Gln	Gly	Leu	Leu	Asn	Ala	Ser
145					150					155					160
Phe	Phe	Thr	Leu	Ser	Phe	Phe	Ser	Leu	Ile	Phe	Cys	Gly	Pro	Asn	Arg
			165						170					175	
Ile	Asn	His	Phe	Tyr	Cys	Asp	Leu	Ala	Pro	Leu	Val	Glu	Leu	Ser	Cys
			180					185					190		
Ser	Asp	Val	Thr	Leu	Ala	Val	Val	Ile	Thr	Ser	Ile	Ser	Ala	Gly	Phe
	195						200					205			
Ile	Thr	Leu	Thr	Thr	Val	Phe	Val	Ile	Ala	Ile	Ser	Tyr	Ser	Cys	Ile
	210					215					220				
Phe	Ile	Thr	Ile	Met	Lys	Met	His	Ser	Thr	Glu	Ser	Arg	Tyr	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly
			245						250					255	
Thr	Thr	Met	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Thr	Asp
		260						265					270		
Gln	Asn	Lys	Val	Leu	Ser	Val	Phe	Tyr	Met	Val	Val	Ile	Pro	Met	Leu
	275						280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Leu
	290					295					300				
Lys	Arg	Tyr	Leu	Gly	Lys	Lys	Ile	Phe	Ser	Tyr	Gly	Asn	Leu	Phe	Cys
305					310					315					320
Lys	Thr	His	Tyr	Asn	Asp	Thr	His	Gln	Val						
			325						330						

<210> 2070  
 <211> 326  
 <212> PRT  
 <213> Mus musculus

<400> 2070

Met	Glu	Arg	Leu	Asn	His	Ser	Arg	Val	Pro	Glu	Phe	Val	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Ser	Pro	Glu	Leu	Gln	Ile	Phe	Phe	Phe	Val	Ala	Phe	Ser
		20						25					30		
Ile	Phe	Tyr	Leu	Met	Thr	Met	Leu	Gly	Asn	Cys	Leu	Ile	Leu	Phe	Thr
		35					40					45			
Val	Leu	Ser	Thr	Ser	His	Leu	His	Ser	Pro	Met	Phe	Phe	Leu	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Leu	Ile	Asp	Ile	Cys	Leu	Ser	Ser	Phe	Ala	Thr	Pro	Lys
65					70					75					80
Met	Ile	Met	Asp	Phe	Phe	Ala	His	His	Lys	Thr	Ile	Ser	Phe	Glu	Gly
			85						90					95	
Cys	Ile	Ser	Gln	Ile	Phe	Leu	Leu	His	Leu	Phe	Thr	Gly	Thr	Glu	Ile
			100					105					110		
Val	Leu	Leu	Ile	Ser	Met	Ser	Phe	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Tyr	Tyr	Ser	Thr	Ile	Met	Ser	Gln	Lys	Val	Cys	Val	Gly	Leu
	130					135					140				
Val	Ile	Ala	Ser	Trp	Met	Val	Gly	Phe	Leu	His	Thr	Met	Ser	Gln	Leu
145					150					155					160
Val	Phe	Ile	Leu	Tyr	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Val	Asp	Ser
			165						170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Leu	Val	Ile	Gln	Leu	Ala	Cys	Ile	Asp	Thr
			180					185					190		
Tyr	Val	Leu	Gly	Val	Phe	Met	Val	Ala	Thr	Ser	Gly	Val	Ile	Ala	Leu
		195					200					205			
Ile	Ser	Phe	Leu	Leu	Leu	Leu	Ile	Ser	Tyr	Ile	Val	Val	Leu	Val	Thr
	210					215					220				
Ile	Arg	Gly	His	Ser	Ser	Ile	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Cys
225					230					235					240
Thr	Ser	His	Phe	Thr	Val	Val	Leu	Met	Phe	Phe	Gly	Pro	Cys	Ile	Leu
			245						250					255	
Ile	Tyr	Val	Trp	Pro	Phe	Thr	Asn	Phe	Leu	Met	Asp	Lys	Ile	Leu	Ser
			260					265					270		
Val	Phe	Tyr	Thr	Ile	Phe	Thr	Pro	Phe	Leu	Asn	Pro	Leu	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Gln	Glu	Val	Arg	Thr	Ala	Val	Lys	Lys	Lys	Ile	Ser	Asn
	290					295					300				
Gln	Tyr	Phe	Ser	Phe	Gly	Lys	Ile	Asn	Pro	His	Tyr	Thr	Val	Lys	Gly
305					310					315					320
Leu	Glu	Arg	Ser	Arg	Glu										
				325											

<210> 2071

<211> 317

<212> PRT

<213> Mus musculus

<400> 2071

Met	Asn	Gln	Ser	Val	Val	Ser	Glu	Phe	Val	Phe	Leu	Gly	Leu	Thr	Asn
1				5					10					15	
Ser	Trp	Asn	Ile	Gln	Leu	Phe	Leu	Phe	Val	Phe	Ser	Ser	Ile	Phe	Tyr
		20						25					30		
Val	Ala	Ser	Met	Met	Gly	Asn	Ser	Leu	Ile	Val	Phe	Thr	Val	Val	Ser
		35				40						45			
Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala	Asn	Leu	Ser





Val	Ile	Gly	Lys	Ile	Gly	Leu	Val	Val	Leu	Asp	Arg	Ala	Val	Cys	Val
130						135					140				
Val	Phe	Pro	Val	Pro	Phe	Leu	Ile	Lys	Arg	Leu	Arg	Phe	Cys	His	Pro
145					150					155					160
Asn	Ile	Leu	Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Met	Met	Arg	Leu
				165						170				175	
Ala	Cys	Ala	Ser	Thr	Arg	Val	Asn	Ser	Leu	Tyr	Gly	Leu	Ile	Ile	Val
			180						185				190		
Ile	Leu	Ile	Leu	Gly	Leu	Asp	Ala	Leu	Ile	Ile	Leu	Phe	Ser	Tyr	Ile
		195					200					205			
Leu	Ile	Leu	Lys	Thr	Val	Leu	Gly	Ile	Ser	Ser	Arg	Ala	Glu	Arg	Leu
	210					215					220				
Lys	Ala	Leu	Asn	Thr	Cys	Leu	Ser	His	Ile	Cys	Thr	Val	Leu	Leu	Phe
225					230					235					240
Tyr	Ile	Pro	Phe	Ile	Gly	Ala	Thr	Met	Ile	His	Arg	Phe	Gly	Lys	His
				245					250					255	
Leu	Ser	Pro	Ile	Val	His	Met	Pro	Met	Ala	Asn	Ile	Tyr	Leu	Leu	Leu
			260					265					270		
Pro	Thr	Leu	Leu	Asn	Pro	Ile	Val	Tyr	Ser	Val	Lys	Asn	Lys	Gln	Ile
		275					280					285			
Arg	Gly	Val	Met	Lys	Met	Phe	Gln	Gly	Arg	Lys	Ser	Arg	Ala		
	290					295					300				

<210> 2073  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2073

Met	Gly	Thr	Val	Asn	His	Thr	Asp	Ile	Ser	His	Thr	Val	Phe	His	Leu
1				5					10					15	
Leu	Gly	Ile	Pro	Gly	Leu	Glu	Asp	Gln	His	Met	Trp	Ile	Ser	Ile	Pro
			20					25					30		
Phe	Phe	Ile	Ser	Tyr	Ile	Thr	Ala	Leu	Leu	Gly	Asn	Ser	Leu	Leu	Ile
	35						40					45			
Phe	Ile	Ile	Leu	Thr	Arg	Pro	Ser	Leu	His	Glu	Pro	Met	Tyr	Leu	Phe
	50					55					60				
Leu	Cys	Met	Leu	Ala	Gly	Ala	Asp	Ile	Val	Leu	Ser	Thr	Ser	Thr	Val
65					70					75					80
Pro	Gln	Ala	Leu	Ser	Ile	Phe	Trp	Phe	His	Ala	Gly	Glu	Ile	Ser	Leu
			85					90						95	
Asp	Arg	Cys	Ile	Thr	Gln	Leu	Phe	Phe	Ile	His	Ser	Thr	Phe	Ile	Ser
			100					105					110		
Glu	Ser	Gly	Ile	Leu	Leu	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ile	Ala	Ile
		115					120					125			
Cys	Tyr	Pro	Leu	Arg	Tyr	Ile	Thr	Val	Leu	Thr	Lys	Ser	Leu	Ile	Gly
	130					135					140				
Lys	Ile	Gly	Val	Gly	Ile	Phe	Leu	Arg	Ser	Tyr	Gly	Thr	Ile	Phe	Pro
145					150					155					160
Ile	Ile	Phe	Leu	Leu	Lys	Arg	Leu	Thr	Phe	Cys	Arg	Thr	Asn	Ile	Leu
				165					170					175	
Pro	His	Thr	Ala	Cys	Glu	His	Ala	Gly	Leu	Ser	Lys	Tyr	Ala	Cys	Asn
			180					185					190		
Asp	Leu	Gln	Val	His	Ile	Trp	Tyr	Gly	Phe	Phe	Val	Leu	Met	Ser	Thr
		195					200					205			
Val	Asn	Leu	Asp	Val	Val	Leu	Ile	Phe	Val	Ser	Tyr	Val	Leu	Ile	Leu

210	215	220
Arg Ala Val Phe His Met	Pro Ser Gln Asp Ala	Arg His Lys Ala Leu
225	230	235
Asn Thr Cys Gly Ser His	Val Cys Val Ile Ile	Leu Phe Tyr Gly Pro
245	250	255
Gly Ile Phe Ser Thr Leu	Asn His Gln Phe Gly	Tyr Lys Ile Ser Thr
260	265	270
Gly Val His Val Leu Leu	Ala Asn Val Cys Ile	Leu Ala Pro Pro Met
275	280	285
Leu Asn Pro Ile Ile Tyr	Gly Val Lys Thr Lys	Gln Ile Arg Asp Gln
290	295	300
Val Thr His Val Leu Phe	Leu Lys Val Ile	
305	310	

<210> 2074  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2074

Met Arg Gly Glu Asn Ile Thr Lys Val Ser Thr Phe Ile Leu Leu Gly	
1 5 10 15	
Phe Pro Thr Ala Pro Glu Leu Gln Tyr Leu Leu Phe Leu Leu Phe Leu	
20 25 30	
Leu Ala Tyr Leu Phe Val Leu Val Glu Asn Leu Thr Ile Ile Leu Thr	
35 40 45	
Val Trp Ser Ser Ala Ser Leu His Arg Pro Met Tyr Tyr Phe Leu Gly	
50 55 60	
Ser Leu Ser Phe Leu Glu Ile Trp Tyr Val Ser Asp Ile Ile Pro Lys	
65 70 75 80	
Met Leu Asp Gly Phe Leu Leu Gln Arg Lys Arg Ile Ser Phe Thr Gly	
85 90 95	
Cys Met Thr Gln Leu Tyr Phe Phe Ile Ser Leu Val Cys Thr Glu Cys	
100 105 110	
Val Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His	
115 120 125	
Pro Leu Arg Tyr Gln Val Ile Met Thr Thr Gly Leu Cys Val Gln Leu	
130 135 140	
Val Ala Phe Ser Phe Ala Ser Ala Phe Thr Val Ser Val Ile Lys Val	
145 150 155 160	
Tyr Phe Ile Ser Ser Ala Thr Phe Cys Gly Ser Asn Val Leu Asn His	
165 170 175	
Phe Phe Cys Asp Ile Ser Pro Ile Leu Lys Leu Ala Cys Thr Asp Phe	
180 185 190	
Ser Thr Ala Glu Leu Val Asp Phe Ile Leu Ala Phe Ile Ile Leu Val	
195 200 205	
Phe Pro Leu Leu Ala Thr Ile Leu Ser Tyr Gly Tyr Ile Thr Leu Ala	
210 215 220	
Val Leu Arg Ile Pro Ser Ala Thr Gly Arg Trp Arg Ala Phe Ser Thr	
225 230 235 240	
Cys Ala Ser His Leu Thr Val Val Thr Phe Phe Tyr Val Ala Met Leu	
245 250 255	
Phe Ile Tyr Val Arg Pro Gln Ala Ile Asp Thr Arg Ser Ser Asn Lys	
260 265 270	
Leu Ile Ser Ala Val Tyr Thr Val Leu Thr Pro Ile Leu Asn Pro Leu	
275 280 285	

Ile	Tyr	Cys	Leu	Arg	Asn	Lys	Glu	Phe	Lys	Asp	Ala	Val	Lys	Arg	Thr
	290					295					300				
Leu	Gly	Leu	Gly	His	Thr	Leu									
305					310										

<210> 2075  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

Met	Glu	Glu	Gly	Asn	Gln	Thr	Gly	Met	Val	Leu	Phe	His	Phe	Arg	Pro
1				5					10					15	
Phe	Ser	Lys	Leu	Pro	Glu	Val	Gln	Met	Leu	Ile	Phe	Val	Leu	Phe	Leu
			20					25					30		
Met	Met	Tyr	Leu	Val	Ser	Ile	Gly	Gly	Asn	Met	Ser	Ile	Val	Leu	Thr
		35					40					45			
Ile	Trp	Thr	Asn	Arg	Cys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50					55					60				
Asn	Leu	Ala	Ser	Leu	Glu	Ile	Phe	Tyr	Ser	Ser	Thr	Ile	Ala	Pro	Leu
65					70					75				80	
Thr	Leu	Ala	Ser	Ile	Leu	Ser	Thr	Glu	Arg	Thr	Val	Val	Ser	Leu	Ala
				85					90					95	
Gly	Cys	Gly	Ala	Gln	Met	Phe	Phe	Phe	Ile	Phe	Leu	Gly	Ser	Ala	Asp
			100					105					110		
Cys	Ile	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys
		115					120					125			
His	Pro	Leu	Arg	Tyr	Thr	Leu	Ile	Met	Ser	Trp	His	Leu	Cys	Val	Gln
	130					135					140				
Leu	Ala	Leu	Gly	Ser	Leu	Leu	Leu	Gly	Phe	Ile	Leu	Ala	Met	Gln	Leu
145					150					155				160	
Thr	Val	Leu	Ile	Phe	Gln	Leu	Pro	Phe	Cys	Ser	Ser	Lys	Glu	Ile	Ser
				165				170						175	
Leu	Phe	Tyr	Cys	Asp	Val	Leu	Pro	Val	Met	Arg	Leu	Ala	Cys	Ala	Asp
		180					185					190			
Thr	His	Val	His	Glu	Ala	Thr	Leu	Phe	Val	Val	Ser	Val	Ile	Val	Leu
	195						200					205			
Thr	Ile	Pro	Phe	Leu	Leu	Ile	Thr	Leu	Ser	Tyr	Val	Phe	Ile	Val	Asp
	210					215					220				
Ala	Ile	Leu	Lys	Ile	Arg	Ser	Ala	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser
225					230					235				240	
Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Leu	Leu	Gln	Tyr	Gly	Cys	Thr
				245					250					255	
Ser	Leu	Ile	Tyr	Leu	Cys	Pro	Ser	Ser	Ser	Tyr	Ser	Pro	Glu	Arg	Gly
		260						265					270		
Gln	Val	Val	Ser	Val	Val	Tyr	Thr	Phe	Ile	Thr	Pro	Val	Leu	Asn	Pro
	275						280					285			
Leu	Ile	Tyr	Ser	Met	Arg	Asn	Arg	Glu	Leu	Lys	Asp	Ala	Leu	Arg	Arg
	290					295					300				
Val	Ile	Met	Lys	Leu	Val	Leu	Ile	Gln	Thr	Gln	Glu	Ala	Leu		
305					310					315					

<210> 2076  
 <211> 314  
 <212> PRT

<213> Mus musculus

<400> 2076

Met	Thr	Glu	Glu	Asn	Gln	Thr	Val	Val	Thr	Gln	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Pro	Pro	Glu	His	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35					40					45			
Ile	His	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asp	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Pro	Tyr	Ala	Gly
				85					90					95	
Cys	Leu	Ala	Gln	Leu	Tyr	Phe	Tyr	Leu	Tyr	Phe	Ala	Asp	Leu	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
		115					120					125			
Pro	Leu	His	Tyr	Met	Ser	Ile	Met	Ser	Pro	Arg	Leu	Cys	Val	Ser	Leu
	130					135					140				
Val	Leu	Leu	Ser	Trp	Val	Leu	Thr	Thr	Phe	His	Ala	Met	Leu	His	Thr
145					150					155					160
Leu	Leu	Val	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Ser	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
His	Ile	Asn	Glu	Leu	Val	Ile	Phe	Val	Met	Gly	Gly	Leu	Val	Ile	Val
	195						200					205			
Ile	Pro	Phe	Leu	Leu	Ile	Val	Val	Ser	Tyr	Ala	Arg	Val	Val	Thr	Ser
	210					215					220				
Ile	Leu	Lys	Val	Pro	Ser	Val	Arg	Gly	Ile	Arg	Gln	Val	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
				245					250					255	
Gly	Leu	Tyr	Leu	Cys	Pro	Thr	Ala	Asn	Asn	Thr	Thr	Val	Lys	Glu	Thr
			260					265					270		
Val	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Gly	Ala	Leu	Ala	Arg	Val
	290				295						300				
Leu	Cys	Lys	Lys	Lys	Ile	Thr	Phe	Cys	Leu						
305					310										

<210> 2077

<211> 272

<212> PRT

<213> Mus musculus

<400> 2077

Met	Ala	Phe	Glu	Asn	Ala	Ser	Met	Val	Ile	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Ile	Thr	Asp	Gln	Pro	Asp	Leu	Lys	Ile	Pro	Phe	Phe	Leu	Leu	Phe	Phe
			20					25					30		
Val	Gly	Tyr	Met	Ile	Thr	Val	Leu	Gly	Asn	Leu	Thr	Leu	Ile	Ile	Leu
		35					40					45			

Ile	Gly	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Phe
50						55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Met	Ser	Phe	Ile	Gln	Lys	Lys	Asn	Ile	Ile	Ser	Tyr	Thr	Gly
				85					90					95	
Cys	Met	Ile	Gln	Leu	Tyr	Phe	Phe	Cys	Phe	Phe	Val	Ile	Ser	Glu	Cys
			100					105						110	
Tyr	Val	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Asn	Val	Thr	Leu	Ser	Ser	Lys	Val	Cys	Cys	Tyr	Leu
		130				135					140				
Met	Leu	Gly	Ser	Tyr	Phe	Met	Gly	Phe	Ser	Gly	Ala	Met	Ile	His	Thr
145					150					155					160
Gly	Cys	Ile	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Gly	Asn	Thr	Ile	Asn	His
				165					170					175	
Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Gln	Ile	Ser	Cys	Thr	Ser	Thr
			180					185						190	
Tyr	Ile	Asn	Glu	Ile	Glu	Leu	Phe	Ile	Val	Ala	Gly	Lys	Asp	Ile	Ile
		195				200						205			
Val	Pro	Thr	Ile	Ile	Ile	Phe	Ile	Ser	Tyr	Gly	Phe	Ile	Leu	Phe	Ser
		210				215					220				
Val	Leu	Lys	Ile	Lys	Ser	Thr	Glu	Ser	Arg	Ser	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Met	Leu	Ala	Val	Ser	Leu	Phe	Phe	Gly	Ser	Gly	Ala
				245					250					255	
Phe	Met	Tyr	Leu	Ile	Pro	Ser	Asn	Trp	Asn	Glu	Ile	Glu	Thr	Tyr	Phe
			260					265						270	

<210> 2078

<211> 315

<212> PRT

<213> Mus musculus

<400> 2078

Glu	Lys	Gln	Gln	Asp	Asn	Gly	Thr	Trp	Leu	Val	Thr	Glu	Phe	Leu	Leu
1				5					10					15	
Val	Gly	Phe	Ser	Asn	Leu	Pro	Glu	Leu	Arg	Pro	Thr	Leu	Phe	Ile	Leu
			20					25					30		
Phe	Leu	Leu	Thr	Tyr	Leu	Val	Thr	Leu	Ser	Gly	Asn	Ala	Thr	Ile	Ile
		35					40					45			
Thr	Ile	Ile	Gln	Val	Asp	Arg	Thr	Leu	His	Thr	Pro	Met	Tyr	Arg	Phe
	50				55						60				
Leu	Ala	Val	Leu	Ser	Leu	Ser	Glu	Thr	Cys	Tyr	Thr	Leu	Val	Thr	Ile
65					70					75					80
Pro	Asn	Met	Leu	Ala	His	Leu	Leu	Met	Glu	Ser	Gln	Ala	Ile	Ser	Ile
				85					90					95	
Ala	Gly	Cys	Arg	Ala	Gln	Met	Phe	Phe	Phe	Leu	Gly	Leu	Gly	Cys	Ser
			100					105					110		
His	Cys	Phe	Leu	Leu	Thr	Leu	Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala	Ile
		115				120						125			
Cys	His	Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	Arg	Pro	Thr	Val	Cys	Leu
		130				135					140				
Cys	Leu	Gly	Ala	Leu	Val	Phe	Cys	Ser	Gly	Phe	Ser	Val	Ala	Leu	Ile
145					150					155					160
Glu	Thr	Cys	Met	Ile	Phe	Ser	Ser	Pro	Phe	Cys	Gly	Ala	Gly	His	Val



His Met Val Val Ile Ser Leu Ser Tyr Gly Ser Cys Ile Phe Met Tyr  
                           245                          250                          255  
 Ile Lys Pro Ser Ala Thr Glu Gly Val Ala Phe Asn Lys Gly Val Ala  
                           260                          265                          270  
 Val Leu Asn Asn Ser Val Ala Pro Leu Leu Asn Pro Phe Ile Tyr Thr  
                           275                          280                          285  
 Leu Arg Asn Lys Gln Val Lys Gln Ser Phe Lys Asp Ile Thr Arg Lys  
                           290                          295                          300  
 Ile Val Asn Leu Gln  
 305

<210> 2080  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2080  
 Glu Thr Ile Ala Asn Ser Thr Leu Val Thr Glu Phe Phe Leu Glu Val  
   1                          5                          10                          15  
 Phe Ala Glu Ile Trp Glu Leu Arg Ile Leu Ile Thr Val Leu Phe Leu  
                           20                          25                          30  
 Leu Val Tyr Leu Cys Ser Leu Leu Gly Asn Leu Thr Ile Ile Ile Val  
                           35                          40                          45  
 Thr Thr Val Asp Gln Thr Leu Asn Thr Pro Met Tyr Phe Phe Leu Arg  
                           50                          55                          60  
 Asn Leu Ser Ile Leu Asp Met Gly Tyr Ile Ser Ile Thr Val Pro Ser  
  65                          70                          75                          80  
 Thr Cys Ile Asn Ser Leu Thr Asn His Arg Asn Ile Ser Val Ala Gly  
                           85                          90                          95  
 Cys Ala Ala Gln Ile Phe Ser Phe Leu Phe Cys Ala Tyr Val Glu Ile  
                           100                          105                          110  
 Leu Phe Leu Ser Ile Met Ala Gln Asp Arg Tyr Val Ala Ile Cys Lys  
                           115                          120                          125  
 Pro Leu Leu Tyr Pro Val Ile Met Asn His Gln Phe Cys Val Gln Met  
  130                          135                          140  
 Thr Leu Ala Ser Leu Leu Ser Ser Leu Val Ile Ala Ser Val His Thr  
  145                          150                          155                          160  
 Phe Lys Thr Phe Gln Leu Ser Phe Cys His Ser Asn Val Val Pro Gln  
                           165                          170                          175  
 Phe Phe Cys Asp Leu Pro Ala Leu Leu Arg Leu Ser Cys Ser Asp Thr  
                           180                          185                          190  
 Phe Ser Asn Lys Leu Leu Ile Leu Leu Thr Val Ile Gly Val Ser Gly  
                           195                          200                          205  
 Ser Cys Phe Val Phe Ile Ala Ile Ser Tyr Ile His Ile Leu Ser Thr  
  210                          215                          220  
 Val Leu Lys Ile Pro Val Lys Gly Glu Arg Gly Lys Ala Phe Ser Thr  
  225                          230                          235                          240  
 Cys Val Pro His Ile Ile Val Val Ser Val Phe Val Ser Ser Ala Ala  
                           245                          250                          255  
 Phe Val Tyr Leu Arg Pro Pro Val Ile Thr Phe Glu Val Val Gln Glu  
                           260                          265                          270  
 Met Val Ile Ser Val Phe Tyr Thr Met Val Pro Pro Phe Leu Asn Pro  
                           275                          280                          285  
 Ile Val Tyr Ser Leu Arg Asn Lys Gln Ile Lys Glu Ala Val Arg Lys  
                           290                          295                          300  
 Val Ile Leu Arg Val Phe Pro Ile



305

310

&lt;210&gt; 2081

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2081

```

Met Glu Ile Asn Asn Gln Thr Ser Phe Pro Val Ser Ser Phe Ile Leu
 1           5           10           15
Leu Gly Leu Ser Ala His Pro Lys Leu Glu Lys Thr Phe Phe Met Leu
          20           25           30
Ile Leu Leu Met Tyr Leu Val Ile Leu Leu Gly Asn Gly Ile Leu Ile
          35           40           45
Leu Val Ser Ile Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe
          50           55           60
Leu Gly Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Ser Ser Val
65           70           75           80
Pro Leu Ile Leu Asp Ser Phe Leu Thr Pro Arg Lys Thr Ile Ser Phe
          85           90           95
Ser Gly Cys Ala Val Gln Met Phe Leu Ser Phe Ala Met Gly Ala Thr
          100          105          110
Glu Cys Val Leu Leu Ser Met Met Ala Phe Asp Arg Tyr Val Ala Ile
          115          120          125
Cys Asn Pro Leu Arg Tyr Pro Val Val Met Asn Lys Ala Ala Tyr Val
          130          135          140
Pro Met Ala Val Ser Ser Trp Ser Gly Gly Ile Ala Val Ser Val Val
145           150           155           160
Gln Thr Ser Leu Ala Met Lys Leu Thr Phe Cys Gly Asp Asn Val Ile
          165          170          175
Asn His Phe Thr Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala
          180          185          190
Asp Ile Ser Ile Asn Val Ile Ser Met Gly Val Thr Asn Ile Ile Phe
          195          200          205
Leu Gly Val Pro Val Leu Phe Ile Ser Phe Ser Tyr Val Phe Ile Leu
          210          215          220
Val Thr Ile Leu Arg Ile Pro Ser Ala Glu Gly Arg Lys Lys Ala Phe
225           230           235           240
Ser Thr Cys Ser Ala His Leu Thr Val Val Leu Val Phe Tyr Gly Thr
          245          250          255
Ile Leu Phe Met Tyr Gly Lys Pro Lys Ser Lys Asp Pro Leu Gly Ala
          260          265          270
Asp Lys Gln Asp Leu Ala Asp Leu Ile Ser Leu Phe Tyr Gly Val Leu
          275          280          285
Thr Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val
          290          295          300
Arg Ala Ala Val Thr Asn Leu Val Val Leu Lys Lys Ser Phe Thr
305           310           315

```

&lt;210&gt; 2082

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2082

Met	Asn	His	Glu	Glu	Leu	Glu	Ser	Ile	Asn	Asn	Val	Ser	Thr	Val	Ile
1				5					10					15	
Gln	Phe	Val	Leu	Ile	Gly	Phe	Ser	Asp	Leu	Pro	Asn	Leu	Gln	Gly	Phe
			20					25					30		
Leu	Phe	Ala	Val	Phe	Ser	Val	Val	Tyr	Ile	Ile	Ile	Leu	Ile	Gly	Asn
		35					40					45			
Phe	Leu	Ile	Ile	Ile	Ile	Ile	Ser	Thr	Asp	Gln	Ala	Leu	Gln	Lys	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val
65					70					75					80
Ser	Val	Thr	Val	Pro	Arg	Ile	Leu	Phe	Asn	Ile	Gly	Thr	Gln	Asn	Arg
				85					90					95	
Ser	Ile	Ser	Leu	Met	Ser	Cys	Ala	Thr	Gln	Leu	Cys	Phe	Phe	Leu	Val
			100					105					110		
Phe	Gly	Thr	Thr	Glu	Cys	Leu	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg
		115				120						125			
Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	His	Tyr	Pro	Leu	Val	Met	Asn	Pro
	130					135					140				
Thr	Lys	Cys	Thr	Gln	Leu	Ala	Ala	Val	Ser	Trp	Leu	Gly	Gly	Ile	Pro
145					150					155					160
Val	Gln	Ile	Gly	Gln	Thr	Cys	Gln	Ile	Phe	Ser	Met	Asn	Phe	Cys	Asn
			165						170					175	
Ser	Tyr	Lys	Ile	Asn	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Ile	Leu	Thr
		180						185					190		
Leu	Ala	Cys	Gly	Asn	Thr	Ser	Val	His	Glu	Leu	Ser	Val	Tyr	Val	Val
		195					200					205			
Val	Met	Val	Val	Ala	Ala	Phe	Pro	Phe	Ile	Leu	Val	Leu	Thr	Ser	Tyr
	210					215					220				
Ser	Lys	Ile	Ile	Ala	Thr	Ile	Leu	Arg	Leu	Pro	Thr	Ala	Lys	Gly	Arg
225					230					235					240
Gly	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Leu	Leu
			245						250					255	
Phe	Tyr	Gly	Ser	Ala	Thr	Val	Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Met	His
		260					265						270		
Ser	Pro	Gly	Thr	Asp	Lys	Leu	Leu	Ser	Leu	Phe	Tyr	Thr	Ile	Val	Thr
		275					280					285			
Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile
	290					295					300				
Ala	Ala	Leu	Arg	Lys	Leu	Ile	Leu	Lys	Lys						
305					310										

<210> 2083  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2083															
Gln	Ala	Asn	His	Ser	Ser	Ala	Glu	Arg	Phe	Leu	Leu	Leu	Gly	Phe	Ser
1				5					10					15	
Asp	Trp	Pro	Ser	Leu	Gln	Pro	Val	Leu	Phe	Ala	Leu	Val	Leu	Leu	Cys
			20					25					30		
Tyr	Leu	Leu	Thr	Leu	Thr	Gly	Asn	Ala	Ala	Leu	Val	Leu	Leu	Ala	Ile
		35				40						45			
Arg	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Cys	His	Leu
	50					55					60				
Ala	Leu	Val	Asp	Val	Gly	Phe	Thr	Thr	Ser	Val	Val	Pro	Pro	Leu	Leu

65					70					75				80
Ala	Ser	Leu	Arg	Gly	Ser	Met	Leu	Gln	Leu	Pro	Arg	Ala	Gly	Cys Met
				85					90					95
Ala	Gln	Leu	Cys	Ser	Ser	Leu	Ala	Leu	Gly	Ser	Ala	Glu	Cys	Val Leu
			100					105					110	
Leu	Ala	Val	Met	Ala	Leu	Asp	Arg	Ala	Ala	Ala	Val	Cys	Asn	Pro Leu
			115				120					125		
Arg	Tyr	Thr	Ser	Leu	Ala	Ser	Pro	Leu	Leu	Cys	Arg	Thr	Leu	Ala Arg
			130			135					140			
Ile	Ser	Trp	Leu	Gly	Gly	Leu	Ala	Asn	Ser	Ala	Ala	Gln	Thr	Ala Leu
					150					155				160
Leu	Ala	Ala	Arg	Pro	Leu	Cys	Ala	Pro	Arg	Cys	Leu	Asp	His	Phe Ile
				165					170					175
Cys	Glu	Leu	Pro	Ala	Leu	Leu	Gln	Leu	Ala	Cys	Arg	Gly	Gly	Arg Ser
			180					185					190	
Ala	Thr	Glu	Arg	Gln	Met	Phe	Ala	Ala	Arg	Val	Val	Ile	Leu	Leu Val
			195				200					205		
Pro	Ser	Ala	Val	Ile	Leu	Ala	Ser	Tyr	Ile	Ala	Val	Gly	Arg	Ala Val
			210			215					220			
Trp	Gly	Met	His	Ser	Ser	Ser	Gly	Trp	Arg	Lys	Ala	Ala	Ser	Thr Cys
				230					235					240
Gly	Ser	His	Leu	Thr	Ala	Val	Cys	Leu	Phe	Tyr	Gly	Ser	Ala	Thr Tyr
				245					250					255
Thr	Tyr	Leu	Gln	Pro	Thr	His	Ser	Tyr	Asn	Gln	Gly	Arg	Gly	Lys Phe
			260					265					270	
Val	Ser	Leu	Phe	Tyr	Thr	Val	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu Ile
			275				280					285		
Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Ala	Leu	Arg	Leu Leu
			290			295					300			
Arg	Ser	Leu	Gly	Arg	Pro									
305					310									

<210> 2084  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2084

Met	Ser	Asn	Gln	Thr	Ser	Val	Thr	Glu	Phe	Leu	Leu	Leu	Gly	Val	Thr
1				5					10					15	
Asp	Ile	Gln	Glu	Leu	Asn	Pro	Ile	Leu	Phe	Val	Val	Phe	Phe	Thr	Ile
			20					25					30		
Tyr	Phe	Val	Asn	Ile	Thr	Gly	Asn	Gly	Ala	Ile	Leu	Met	Ile	Val	Ile
			35				40					45			
Leu	Asp	Pro	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu
			50			55					60				
Ala	Cys	Leu	Asp	Ile	Cys	Phe	Ser	Thr	Val	Thr	Leu	Pro	Lys	Met	Leu
					70				75						80
Gln	Asn	Leu	Leu	Ser	Thr	Ser	Lys	Ala	Ile	Ser	Phe	Leu	Gly	Cys	Ile
				85				90						95	
Thr	Gln	Leu	His	Phe	Phe	His	Phe	Leu	Gly	Ser	Thr	Glu	Ala	Met	Leu
			100					105					110		
Leu	Pro	Val	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Arg	Pro	Leu
			115				120					125			
His	Tyr	Ser	Val	Ile	Met	Asn	His	Gln	Leu	Cys	Ile	His	Met	Thr	Val
			130			135					140				

Thr Ile Trp Thr Leu Gly Phe Phe His Ala Leu Leu His Ser Val Met  
 145 150 155 160  
 Thr Ser Arg Leu Ser Phe Cys Gly Pro Asn His Val His His Phe Phe  
 165 170 175  
 Cys Asp Ile Lys Pro Leu Leu Asp Leu Ala Cys Gly Asn Thr Glu Leu  
 180 185 190  
 Asn Leu Trp Leu Leu Asn Thr Val Thr Gly Thr Ile Ala Leu Thr Pro  
 195 200 205  
 Phe Phe Leu Thr Phe Leu Ser Tyr Phe Tyr Ile Ile Thr Tyr Leu Phe  
 210 215 220  
 Leu Lys Thr Arg Ser Cys Ser Met Leu His Lys Ala Leu Ser Thr Cys  
 225 230 235 240  
 Ala Ser His Phe Met Val Val Ile Leu Leu Tyr Val Pro Val Leu Phe  
 245 250 255  
 Thr Tyr Ile Arg Pro Ala Ser Gly Ser Ser Leu Asp Gln Asp Arg Ile  
 260 265 270  
 Ile Ala Ile Met Tyr Ser Val Val Thr Pro Ala Leu Asn Pro Leu Ile  
 275 280 285  
 Tyr Thr Leu Arg Asn Lys Glu Val Arg Ser Ala Leu Asn Arg Lys Val  
 290 295 300  
 Arg Arg Trp Leu  
 305

<210> 2085  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2085  
 Leu Ser Val Ile Cys Gln Ile Leu Ala His Leu Gln Leu Glu Thr His  
 1 5 10 15  
 Ser Met Gln Thr Lys Gly Ser Thr Gly Ser Val Ala Phe Tyr Ile Ile  
 20 25 30  
 Thr Ile Leu Gly Asn Leu Gly Met Ile Ile Leu Ile Gln Val Asp Ile  
 35 40 45  
 Gln Leu His Thr Pro Met Tyr Phe Leu Leu Arg His Leu Pro Leu Leu  
 50 55 60  
 Asp Gly Thr Ser Ile Ser Leu Tyr Thr Ser Val Ile Thr Pro Gln Ile  
 65 70 75 80  
 Met Ala Thr Leu Ala Lys Asn Lys Met Thr Ile Ser Cys Gly Arg Cys  
 85 90 95  
 Ala Thr Gln Phe Phe Ser Phe Thr Ile Cys Ala Val Thr Glu Cys Phe  
 100 105 110  
 Leu Leu Ser Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Ser Asn Ser  
 115 120 125  
 Gln Leu Tyr Thr Val Ile Met Ser Pro Lys Lys Cys Trp Ser Leu Val  
 130 135 140  
 Ala Val Ala Tyr Val Gly Gly Leu Phe Gly Val Ile Leu Arg Thr Thr  
 145 150 155 160  
 Cys Thr Phe Ser Leu Phe Phe Cys Glu Asp Asn Gln Ile Asn Phe Phe  
 165 170 175  
 Phe Ser Asp Leu Pro Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr Ile  
 180 185 190  
 Asn Ile Glu Ile Ile Val Val Cys Phe Gly Asn Phe Val Ile Leu Ala  
 195 200 205  
 Asn Ala Leu Val Ile Leu Ile Ser Asn Met Phe Ile Ile Lys Ala Val

210		215		220
Ile Lys Leu Lys Ser Ser Gly Ser Arg Gly Lys Thr Phe Ser Thr Cys				
225		230		235
Thr Ser His Leu Thr Ala Val Gly Leu Leu Phe Gly Ile Leu Ile Phe				
	245		250	255
Ile Tyr Ile Gln Arg Ser Ser Gly Lys Ser Leu Glu Glu Asp Lys Val				
	260		265	270
Val Ser Val Phe Asn Thr Val Ile Ile Pro Met Leu Asn Pro Leu Ile				
	275		280	285
Tyr Thr Leu Arg Asn Lys Asp Val Lys Ala Ala Phe Arg Lys Val Thr				
	290		295	300
Gly Arg Phe Gln Val Ser Gln Thr Leu Gln Asn				
305		310		315

<210> 2086  
 <211> 277  
 <212> PRT  
 <213> Mus musculus

<400> 2086

Met Pro Asn Phe Thr Asp Val Thr Glu Phe Leu Leu Val Gly Leu Thr				
1	5	10	15	
Arg Arg Gln Glu Leu Arg Val Leu Phe Val Val Phe Leu Val Val				
	20	25	30	
Tyr Met Val Thr Leu Leu Gly Asn Ile Gly Met Ile Ile Leu Ile Ser				
	35	40	45	
Ile Ser Leu Gln Leu Gln Ser Pro Met Tyr Phe Phe Leu Ser His Leu				
	50	55	60	
Ser Phe Val Asp Val Leu Phe Ser Ser Asn Val Thr Pro Lys Met Leu				
	65	70	75	80
Glu Asn Leu Ile Ser Glu Thr Lys Thr Ile Ser Tyr Val Gly Cys Leu				
	85	90	95	
Val Gln Cys Tyr Phe Phe Ile Ala Leu Val His Val Glu Val Tyr Ile				
	100	105	110	
Leu Ala Val Met Ala Phe Asp Arg Tyr Met Ala Ile Cys Asn Pro Leu				
	115	120	125	
Leu Tyr Ser Ser Lys Met Ser Arg Val Val Cys Ile Arg Leu Ile Ser				
	130	135	140	
Val Pro Tyr Val Tyr Gly Phe Ser Val Ser Leu Ile Cys Thr Leu Trp				
	145	150	155	160
Thr Tyr Gly Leu Tyr Phe Cys Gly Asn Ile Lys Ile Asn His Phe Tyr				
	165	170	175	
Cys Ala Asp Pro Pro Leu Ile Lys Ile Ala Cys Gly Gly Val His Ile				
	180	185	190	
Lys Glu Tyr Thr Met Ile Val Ile Ala Gly Ile Asn Phe Thr Tyr Ser				
	195	200	205	
Leu Ser Val Val Leu Ile Ser Tyr Val Leu Ile Val Val Ala Val Leu				
	210	215	220	
Arg Met His Ser Ala Asp Gly Arg Arg Lys Ala Phe Ser Thr Cys Gly				
	225	230	235	240
Ser His Leu Thr Ala Val Ser Met Phe Tyr Gly Thr Leu Ile Phe Met				
	245	250	255	
Tyr Leu Arg Arg Pro Thr Glu Glu Ser Val Glu Gln Gly Lys Met Val				
	260	265	270	
Ala Val Phe Tyr Thr				
	275			

<210> 2087  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2087  
 Ser Trp Glu Asp Gly Asn His Thr Ala Leu Thr Glu Phe Ile Leu Leu  
 1 5 10 15  
 Gly Leu Thr Asp Glu Pro Val Leu Arg Val Val Leu Phe Thr Ile Ile  
 20 25 30  
 Leu Cys Ile Tyr Leu Val Thr Val Ser Gly Asn Leu Ser Thr Ile Leu  
 35 40 45  
 Leu Ile Arg Val Ser Ser Gln Leu His His Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser His Leu Ala Ser Ala Asp Ile Gly Tyr Ser Ser Ser Val Thr Pro  
 65 70 75 80  
 Asn Met Leu Val Asn Phe Leu Val Glu Lys Asn Thr Ile Thr Tyr Leu  
 85 90 95  
 Arg Cys Gly Ile Gln Leu Gly Ser Ser Ala Phe Phe Gly Thr Val Glu  
 100 105 110  
 Cys Phe Val Leu Thr Ala Met Ala Tyr Asp Arg Phe Val Ala Ile Cys  
 115 120 125  
 Ser Pro Leu Leu Tyr Ser Thr Lys Met Ser Ile Gln Val Cys Ile Gln  
 130 135 140  
 Leu Leu Val Val Ala Tyr Ile Ser Gly Phe Leu Asn Ala Ser Ser Phe  
 145 150 155 160  
 Thr Leu Ser Phe Phe Thr Phe Phe Phe Cys Gly Pro Asn Ile Ile Asn  
 165 170 175  
 His Phe Phe Cys Asp Phe Thr Pro Leu Val Glu Leu Ser Cys Ser Asp  
 180 185 190  
 Asp Arg Val Ser Ile Ile Leu Ala Thr Ile Ser Val Gly Thr Val Ile  
 195 200 205  
 Phe Ile Thr Val Leu Ile Ile Val Val Ser Tyr Ile Tyr Ile Leu Ile  
 210 215 220  
 Thr Ile Leu Lys Met His Ser Thr Glu Gly Arg His Lys Ala Phe Ser  
 225 230 235 240  
 Thr Cys Thr Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Thr Val  
 245 250 255  
 Thr Phe Ile Tyr Val Met Pro Lys Ser Asn Tyr Ser Thr Asp Gln Asn  
 260 265 270  
 Lys Val Val Ser Val Phe Tyr Met Val Val Ile Pro Met Leu Asn Pro  
 275 280 285  
 Leu Ile Tyr Ser Leu Arg Asn Asn Glu Ile Lys Gly Ala Leu Lys Arg  
 290 295 300  
 Gln Leu Gly Arg Lys Ile Phe Ser  
 305 310

<210> 2088  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2088  
 Met Trp Met Ile Pro Gly Gln Asn Gln Ser Trp Val Ser Glu Phe Ile

1				5					10				15				
Leu	Ile	Gly	Phe	Ser	Ser	Asp	Pro	Thr	Thr	Asn	Ser	Ile	Leu	Phe	Ile		
			20					25					30				
Val	Phe	Leu	Leu	Ile	Tyr	Leu	Ser	Ser	Val	Leu	Gly	Asn	Gly	Leu	Ile		
		35				40						45					
Ile	Met	Leu	Val	Cys	Leu	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe		
	50				55						60						
Phe	Leu	Cys	Thr	Leu	Ser	Leu	Leu	Asp	Met	Ser	Phe	Val	Thr	Thr	Thr		
65				70						75					80		
Val	Pro	Gln	Met	Leu	Val	His	Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser		
				85					90					95			
Phe	Ala	Gly	Cys	Trp	Leu	Gln	Met	Phe	Val	Phe	Gly	Ala	Leu	Gly	Met		
			100					105					110				
Thr	Glu	Cys	Thr	Phe	Phe	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala		
		115					120					125					
Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Leu	Asn	Trp	Gly	Leu	Cys		
	130					135					140						
Met	Arg	Leu	Ala	Ala	Gly	Thr	Trp	Ile	Ser	Gly	Phe	Phe	Ser	Ser	Leu		
145					150					155					160		
Leu	His	Thr	Phe	Phe	Thr	Met	Ser	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Arg		
				165					170					175			
Val	Asn	His	Tyr	Phe	Cys	Glu	Gly	Pro	Ser	Val	Arg	Ser	Leu	Ala	Cys		
		180						185					190				
Met	Asp	Thr	His	Ile	Ile	Glu	Met	Val	Asp	Ser	Val	Leu	Ile	Val	Ile		
	195					200						205					
Leu	Val	Ile	Val	Pro	Ile	Ser	Leu	Ile	Val	Ala	Ser	Tyr	Ile	Arg	Ile		
	210					215					220						
Val	Met	Ala	Ile	Leu	Lys	Ile	Lys	Ser	Thr	Gln	Gly	Arg	Cys	Lys	Ala		
225					230					235					240		
Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Thr	Leu	Phe	Tyr	Val		
				245					250					255			
Pro	Ala	Ser	Tyr	Ile	Tyr	Leu	Arg	Pro	Asn	Ser	Ser	Tyr	Ser	Pro	Glu		
		260						265					270				
Arg	Asp	Lys	Gln	Val	Ser	Leu	Phe	Tyr	Asn	Val	Phe	Thr	Ala	Leu	Leu		
		275					280					285					
Asn	Pro	Val	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Arg	Ala	Phe		
	290					295					300						
Leu	Lys	Val	Met	Gly	His	Ala	Arg	Val	Asp	Ser							
305					310					315							

<210> 2089  
 <211> 447  
 <212> PRT  
 <213> Mus musculus

<400> 2089  
 Met Ser Val Phe Asn Ala Ser Asn Ile Glu Ile Pro Thr Phe Val Leu  
 1 5 10 15  
 Ile Gly Ile Pro Gly Leu Glu His Val His Ile Trp Leu Ser Ile Pro  
 20 25 30  
 Ile Cys Leu Met Tyr Leu Val Ala Ile Met Gly Asn Cys Thr Ile Leu  
 35 40 45  
 Phe Leu Ile Lys Thr Glu Thr Ser Leu His Glu Pro Met Tyr Tyr Phe  
 50 55 60  
 Leu Ser Met Leu Ala Phe Ser Asp Leu Gly Leu Ser Val Ser Ser Leu  
 65 70 75 80

Pro	Thr	Val	Leu	Arg	Ile	Phe	Leu	Phe	Asn	Ser	Thr	Glu	Ile	Ser	Ser
				85					90					95	
Asp	Ala	Cys	Phe	Ala	Gln	Glu	Phe	Phe	Ile	His	Gly	Phe	Ser	Ala	Met
			100					105					110		
Glu	Ser	Ser	Val	Leu	Phe	Ile	Met	Ala	Ile	Asp	Arg	Phe	Ile	Ala	Val
		115					120					125			
Tyr	Asn	Pro	Leu	Arg	Tyr	Thr	Ser	Ile	Leu	Thr	Val	Arg	Arg	Val	Phe
	130					135					140				
Lys	Thr	Gly	Leu	Ile	Phe	Ala	Thr	Phe	Cys	Ile	Ala	Val	Val	Leu	Pro
145					150					155					160
Phe	Pro	Phe	Ile	Leu	Lys	Arg	Leu	Lys	Phe	Cys	Lys	Lys	Ser	Leu	Leu
				165					170					175	
Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Val	Met	Lys	Val	Ala	Cys	Ser
			180					185					190		
Asn	Asn	Arg	Ile	Asn	Val	Ile	Tyr	Gly	Phe	Phe	Val	Ala	Thr	Ser	Ser
		195					200					205			
Leu	Leu	Tyr	Leu	Val	Phe	Ile	Ser	Val	Ser	Tyr	Met	Leu	Ile	Leu	Lys
	210					215					220				
Ile	Val	Leu	Gly	Cys	Glu	Glu	Pro	Pro	Ser	His	Leu	Pro	Leu	Asp	Gly
225					230					235					240
Thr	Asp	Ser	Cys	Val	Leu	Ser	Gly	Lys	His	Asn	Leu	His	Thr	Cys	Arg
				245					250					255	
Gly	Ser	Phe	Pro	Ala	Met	Cys	Ser	Ala	Phe	Pro	Val	Met	Thr	Thr	Gly
			260					265					270		
Pro	Met	Gly	Cys	Ser	Gln	Ser	Gly	Ser	Asn	Thr	Ser	Ala	Glu	Asp	Asn
		275					280					285			
Ser	Pro	Lys	Gly	Arg	Val	Leu	Pro	Leu	Ser	Leu	Leu	Leu	Ser	Cys	Ser
	290					295					300				
Cys	Ser	Phe	Ser	Cys	Phe	Leu	Ala	Leu	Ser	Cys	Phe	Phe	Val	Leu	Val
305					310					315					320
Leu	Phe	Leu	Ser	Leu	Ala	Leu	Leu	Leu	Ser	Cys	Ser	Leu	Ala	Pro	Glu
				325					330					335	
Asp	Val	Ser	Asn	Lys	Ala	Phe	Ala	Ala	Glu	Asp	Ser	Gly	Leu	Leu	Arg
			340				345						350		
Ser	Ser	Trp	Leu	Val	Val	Asn	Ala	Gly	Lys	Met	Gly	Ile	Thr	Ser	His
		355				360						365			
Lys	Gly	Arg	Leu	Lys	Phe	Phe	Asn	Thr	Cys	Ile	Ser	His	Ile	Cys	Ala
	370				375						380				
Val	Leu	Ile	Phe	Tyr	Val	Pro	Ile	Ile	Thr	Leu	Ala	Ala	Leu	His	Arg
385					390					395					400
Phe	Ala	Lys	Asn	Ile	Ser	Pro	Val	Ile	Gly	Val	Ile	Ile	Ala	Asp	Ile
			405						410					415	
Phe	Leu	Leu	Val	Pro	Pro	Leu	Met	Asn	Pro	Ile	Val	Tyr	Ser	Val	Lys
			420					425					430		
Ser	Gln	His	Ile	Arg	Asn	Leu	Ile	Gln	Thr	Lys	Phe	Cys	Glu	Lys	
		435					440					445			

<210> 2090  
 <211> 325  
 <212> PRT  
 <213> Mus musculus

<400> 2090  
 Met Ala Phe Leu Pro Ala Ser Gly Val Ala Ala Val Asn Ser Ser Asp  
 1 5 10 15  
 Thr Arg Val Thr Gly Cys Leu Leu Thr Gly Ile Pro Gly Leu Glu His



		20					25			30					
Leu	Gln	Met	Trp	Leu	Ser	Ile	Pro	Phe	Cys	Ile	Met	Tyr	Ile	Ala	Ala
		35					40					45			
Leu	Val	Gly	Asn	Ser	Val	Leu	Val	Cys	Val	Ile	Leu	Ser	Gln	Ser	Ser
		50				55					60				
Leu	His	Glu	Thr	Met	Tyr	Ile	Phe	Leu	Ser	Met	Leu	Ala	Ser	Ala	Asp
65					70					75					80
Val	Leu	Leu	Ser	Thr	Ser	Thr	Met	Pro	Lys	Thr	Leu	Ala	Asn	Phe	Trp
				85					90					95	
Leu	Gly	Ser	Ser	His	Ile	Ser	Phe	Asp	Gly	Cys	Leu	Thr	Gln	Met	Phe
				100				105					110		
Phe	Ile	His	Phe	Leu	Phe	Val	Ala	Asp	Ser	Ala	Val	Leu	Leu	Ala	Met
		115					120					125			
Ala	Phe	Asp	Cys	Tyr	Val	Ala	Ile	Cys	Ser	Pro	Leu	Arg	Tyr	Thr	Thr
		130				135					140				
Ile	Leu	Thr	Arg	Gln	Val	Met	Gly	Lys	Met	Ala	Ala	Ala	Ile	Leu	Thr
145					150					155					160
Arg	Ser	Phe	Ile	Ile	Met	Leu	Pro	Cys	Ile	Phe	Leu	Leu	Lys	Arg	Leu
				165				170						175	
His	Tyr	Cys	Arg	Ile	Asn	Val	Ile	Glu	His	Thr	Phe	Cys	Glu	His	Met
			180					185					190		
Gly	Ile	Ala	Arg	Leu	Ser	Cys	Ser	Asp	Ile	Ser	Ile	Asn	Val	Trp	Tyr
		195					200					205			
Gly	Leu	Thr	Ala	Ala	Leu	Leu	Ser	Thr	Gly	Leu	Asp	Ile	Ile	Leu	Ile
		210				215					220				
Ala	Val	Ser	Tyr	Val	His	Ile	Leu	Ala	Val	Phe	Arg	Leu	Ser	Ser	Gln
225					230					235					240
Glu	Ala	Arg	Ser	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Val	Cys	Val
				245					250					255	
Ile	Leu	Leu	Phe	Tyr	Ile	Pro	Ala	Leu	Phe	Ser	Val	Phe	Ala	Tyr	Arg
			260					265					270		
Phe	Gly	Gly	Lys	His	Ile	Pro	Arg	Tyr	Val	His	Ile	Leu	Leu	Ala	Asn
		275					280					285			
Leu	Tyr	Val	Val	Ile	Pro	Pro	Met	Leu	Asn	Pro	Val	Ile	Tyr	Gly	Val
		290				295					300				
Arg	Thr	Lys	Gln	Ile	Leu	Glu	Gly	Ala	Lys	Gln	Met	Phe	Thr	Asn	Ile
305					310					315					320
Thr	Lys	Glu	Phe	Lys											
				325											

<210> 2091

<211> 309

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (90)...(95)

<223> Any amino acid

<400> 2091

Met	Gly	Thr	Ala	Leu	His	Glu	Thr	Asn	Ser	Ser	Glu	Val	His	Val	Ser
1				5				10					15		
Glu	Phe	Ile	Leu	Leu	Gly	Phe	Pro	Gly	Ile	His	Glu	Phe	Gln	Ile	Trp
			20					25					30		
Leu	Ser	Leu	Pro	Met	Ala	Leu	Leu	Tyr	Ile	Val	Ala	Leu	Gly	Ala	Asn



Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro
	115						120					125			
Ile	His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Lys	His	Cys	Val	Ser	Leu	Val
	130					135					140				
Val	Leu	Ser	Trp	Val	Phe	Thr	Ile	Leu	Tyr	Ser	Met	Leu	His	Thr	Leu
145					150					155					160
Leu	Leu	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro	His	Phe
			165						170					175	
Phe	Cys	Asp	Leu	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile	Tyr
		180						185					190		
Ile	Asn	Glu	Val	Met	Ile	Phe	Ile	Phe	Glu	Gly	Leu	Asp	Thr	Val	Ile
	195						200					205			
Pro	Phe	Leu	Leu	Ile	Phe	Val	Ser	Cys	Val	Gln	Ile	Val	Cys	Ser	Ile
	210					215					220				
Leu	Lys	Phe	Ser	Thr	Thr	Trp	Gly	Ile	Ala	Lys	Ile	Phe	Ser	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile	Gly
			245						250					255	
Leu	Tyr	Phe	Cys	Pro	Thr	Asn	Asn	Ser	Thr	Val	Lys	Asp	Thr	Ala	Met
		260					265						270		
Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
	275						280					285			
Ser	Leu	Met	Asn	Lys	Asp	Met	Lys	Glu	Ala	Leu	Ile				
	290					295					300				

<210> 2093  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2093

Met	Asn	Asn	Gln	Thr	Val	Ile	Ser	Gln	Phe	Leu	Leu	Leu	Gly	Leu	Pro
1				5					10					15	
Ile	Pro	Leu	Glu	Tyr	Lys	His	Leu	Phe	Phe	Ala	Leu	Phe	Leu	Thr	Met
		20						25					30		
Tyr	Leu	Asn	Ile	Ile	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu	Ile	Leu
	35					40						45			
Leu	Asp	Thr	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu
	50				55					60					
Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys	Leu	Leu
65				70					75					80	
Gln	Asn	Met	Gln	Ser	Gln	Asp	Pro	Ser	Ile	Pro	Tyr	Ala	Ser	Cys	Leu
			85						90					95	
Thr	Gln	Met	Tyr	Phe	Phe	Met	Ala	Phe	Gly	Asn	Met	Glu	Ile	Tyr	Leu
		100						105					110		
Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu
	115					120						125			
His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Val	Ser	Leu	Val	Val
	130				135						140				
Leu	Ser	Trp	Val	Phe	Thr	Ile	Leu	Tyr	Ser	Met	Leu	His	Thr	Leu	Leu
145					150					155					160
Leu	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro	His	Phe	Phe
			165					170						175	
Cys	Asp	Ile	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile	Ser	Ile
		180						185				190			
Asn	Glu	Leu	Met	Ile	Phe	Ile	Val	Gly	Gly	Leu	Asp	Thr	Val	Ile	Pro

	195		200		205										
Phe	Leu	Leu	Ile	Val	Val	Ser	Tyr	Val	Gln	Ile	Val	Cys	Ser	Ile	Leu
	210					215					220				
Lys	Phe	Ser	Ser	Thr	Arg	Gly	Ile	His	Lys	Val	Phe	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile	Gly	Val
				245					250					255	
Tyr	Ile	Cys	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Val	Lys	Glu	Thr	Val	Met
			260					265					270		
Ser	Leu	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Glu	Ala	Leu	Ile	Arg	Val	Leu	Cys
	290					295					300				
Lys	Lys	Gln	Ile	Ser	Leu										
305					310										

<210> 2094  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2094

Met	Pro	Gly	Lys	Asn	Gln	Thr	Ile	Ile	Ser	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Pro	Pro	Glu	Gln	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
	35					40					45				
Ile	Arg	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50				55						60				
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70				75						80
Leu	Leu	Leu	Asn	Met	Gln	Ser	Gln	Ile	Pro	Ser	Ile	Ser	Tyr	Ala	Ser
			85					90						95	
Cys	Leu	Ala	Gln	Met	Tyr	Phe	Phe	Leu	Phe	Phe	Gly	Ala	Leu	Glu	Asn
		100						105					110		
Phe	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
	115					120						125			
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Arg	Leu	Cys	Val	Ser	Met
	130					135					140				
Val	Val	Met	Cys	Trp	Val	Leu	Thr	Thr	Phe	Asp	Ala	Met	Leu	His	Thr
145					150					155					160
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro	His
			165						170					175	
Phe	Phe	Cys	Asp	Met	Ser	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr
		180						185					190		
His	Val	Asn	Glu	Val	Val	Ile	Phe	Ile	Ile	Gly	Gly	Leu	Gly	Val	Val
	195					200						205			
Leu	Pro	Phe	Leu	Leu	Ile	Thr	Val	Ser	Tyr	Ala	Arg	Ile	Ile	Ser	Ser
	210					215					220				
Ile	Leu	Lys	Val	Pro	Ser	Thr	Gln	Gly	Ile	Gln	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
			245						250					255	
Gly	Leu	Tyr	Leu	Gly	Pro	Ser	Ala	Tyr	Tyr	Ser	Thr	Leu	Lys	Asp	Thr
			260					265					270		

Val	Met	Ser	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Gly	Ala	Leu	Lys	Arg	Leu
	290					295					300				
Phe	Gln	Lys	Lys	Thr	Ile	Phe									
305					310										

<210> 2095  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2095

Met	Pro	Arg	Asn	Asn	Asn	Gln	Thr	Thr	Ile	Ser	Gln	Phe	Leu	Leu	Leu
1			5						10				15		
Gly	Leu	Pro	Ile	Pro	Gln	Glu	Phe	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe
			20					25				30			
Leu	Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile
	35					40					45				
Leu	Ile	Arg	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu
	50				55					60					
Ser	Asn	Leu	Ser	Phe	Thr	Asp	Leu	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70				75						80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Pro	Tyr	Ala	Gly
			85					90					95		
Cys	Leu	Thr	Gln	Met	Tyr	Phe	Phe	Leu	Phe	Phe	Gly	Asp	Leu	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
			115				120					125			
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Arg	Leu	Cys	Val	Ser	Leu
	130					135					140				
Val	Leu	Leu	Ser	Trp	Leu	Leu	Thr	Met	Ser	His	Ser	Met	Leu	His	Thr
145					150				155						160
Leu	Leu	Leu	Thr	Arg	Leu	Ser	Phe	Cys	Glu	Asn	Asn	Val	Ile	Pro	His
			165					170					175		
Phe	Phe	Cys	Asp	Leu	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile
			180				185					190			
His	Ile	Asn	Glu	Leu	Val	Ile	Leu	Ile	Ile	Gly	Gly	Leu	Val	Val	Ile
	195					200						205			
Leu	Pro	Phe	Leu	Leu	Ile	Thr	Val	Ser	Tyr	Ala	Arg	Ile	Ile	Ser	Ser
	210				215						220				
Ile	Leu	Lys	Val	Pro	Ser	Thr	Gln	Gly	Ile	His	Lys	Val	Phe	Ser	Thr
225				230					235						240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
			245					250					255		
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Leu	Lys	Asp	Thr
			260				265					270			
Val	Met	Ser	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Glu	Ala	Leu	Lys	Arg	Val
	290					295					300				
Leu	Gln	Lys	Lys	Thr	Ile	Phe									
305					310										

<210> 2096

<211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 2096

Met	Glu	Gln	Asp	Asn	Gln	Thr	Trp	Val	His	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Asn	Asp	Trp	Gly	Thr	Gln	Val	Ser	Leu	Phe	Val	Leu	Phe	Leu
			20					25					30		
Leu	Met	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Phe	Leu	Ile	Ile	Val	Leu
		35					40					45			
Ile	Arg	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50				55						60				
Asn	Leu	Ser	Leu	Val	Asp	Ala	Ser	Tyr	Ala	Thr	Ser	Ile	Val	Pro	Gln
65					70				75					80	
Leu	Leu	Ala	His	Phe	Leu	Ala	Thr	His	Lys	Ala	Ile	Pro	Phe	Leu	Ser
			85						90					95	
Cys	Ala	Ala	Gln	Leu	Phe	Phe	Ser	Leu	Gly	Leu	Gly	Gly	Ile	Glu	Phe
			100					105					110		
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asp
		115					120					125			
Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	His	Thr	Gly	Leu	Cys	Thr	Arg	Leu
	130					135					140				
Val	Ile	Thr	Ser	Trp	Val	Ser	Gly	Ser	Ile	Asn	Ser	Leu	Val	His	Thr
145					150					155					160
Ala	Ile	Thr	Phe	Gln	Leu	Pro	Met	Cys	Thr	Asn	Lys	Tyr	Ile	Asp	His
			165						170					175	
Ile	Ser	Cys	Glu	Ile	Leu	Ala	Val	Val	Arg	Leu	Ala	Cys	Val	Asp	Ile
		180						185					190		
Ser	Ser	Asn	Glu	Ile	Val	Ile	Met	Val	Ser	Ser	Ile	Val	Leu	Leu	Met
		195					200					205			
Thr	Pro	Phe	Phe	Leu	Val	Leu	Leu	Ser	Tyr	Ile	Gln	Ile	Ile	Ser	Thr
	210					215					220				
Ile	Leu	Lys	Ile	Gln	Ser	Thr	Glu	Gly	Arg	Arg	Lys	Ala	Phe	His	Thr
225				230					235						240
Cys	Ala	Ser	His	Leu	Thr	Val	Val	Thr	Leu	Cys	Tyr	Gly	Thr	Thr	Ile
			245						250					255	
Phe	Thr	Tyr	Ile	Gln	Pro	His	Ser	Ser	Pro	Ser	Val	Leu	Gln	Glu	Lys
		260					265						270		
Leu	Ile	Ser	Leu	Phe	Tyr	Ala	Val	Leu	Met	Pro	Met	Leu	Asn	Pro	Met
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Trp	Gln	Lys	Leu
	290					295					300				
Leu	Gly	Lys	Phe	Ser	Val	Phe	Thr	Ser	Lys	Leu	Thr	Ser			
305					310					315					

<210> 2097  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2097

Met	Glu	Ile	Pro	His	Asn	Ile	Thr	Glu	Phe	Phe	Met	Leu	Gly	Leu	Ser
1				5					10					15	
Gln	Arg	Pro	Glu	Ile	Gln	Arg	Leu	Leu	Phe	Val	Val	Phe	Leu	Val	Ile
			20					25					30		

Tyr Ala Val Thr Val Cys Gly Asn Met Leu Ile Val Val Thr Val Thr  
 35 40 45  
 Phe Ser Ser Ser Leu Ala Ser Pro Met Tyr Phe Phe Leu Ser Asn Leu  
 50 55 60  
 Ser Phe Ile Asp Thr Cys Tyr Ser Ser Ser Leu Ala Pro Lys Leu Ile  
 65 70 75 80  
 Ala Asp Ser Leu Val Arg Asp Asp Phe Phe Ser Tyr Glu Gly Cys Met  
 85 90 95  
 Ala Gln Leu Phe Gly Ala His Phe Leu Gly Gly Val Glu Ile Ile Leu  
 100 105 110  
 Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Thr Thr Thr Met Thr Arg His Leu Cys Val Val Leu Val Ala  
 130 135 140  
 Val Ala Trp Leu Gly Gly Phe Leu His Ser Leu Val Gln Ile Leu Leu  
 145 150 155 160  
 Ile Phe Gln Leu Pro Phe Cys Gly Pro Asn Val Ile Asn His Phe Val  
 165 170 175  
 Cys Asp Leu Tyr Pro Leu Leu Glu Leu Ala Cys Thr Asn Thr Tyr Val  
 180 185 190  
 Ile Gly Leu Leu Val Val Ala Asn Ser Gly Val Ile Cys Leu Leu Asn  
 195 200 205  
 Phe Leu Met Leu Ala Ala Ser Tyr Ile Val Ile Leu His Ser Leu Arg  
 210 215 220  
 Ser His Ser Ala Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly Ala  
 225 230 235 240  
 His Phe Thr Val Val Thr Met Phe Phe Val Pro Cys Ile Phe Ser Tyr  
 245 250 255  
 Met Arg Pro Ser Thr Thr Leu Pro Ile Asp Lys Asn Met Ala Val Phe  
 260 265 270  
 Tyr Gly Ile Leu Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg  
 275 280 285  
 Asn Glu Glu Val Lys Asp Ala Met Arg Lys Leu Phe Thr Arg Ser Glu  
 290 295 300  
 Val Val Gly Ala  
 305

<210> 2098  
 <211> 275  
 <212> PRT  
 <213> Mus musculus

<400> 2098  
 Thr Val Leu Gly Asn Gly Leu Ile Val Val Thr Val Asn Ile Lys Glu  
 1 5 10 15  
 Ser Val Phe Pro Pro Met Tyr Phe Phe Pro Pro Ile Thr Cys Pro Leu  
 20 25 30  
 Val Glu Ile Ser Tyr Ser Ser Thr Val Val Pro Lys Phe Ile Thr Asp  
 35 40 45  
 Leu Leu Asn Lys Ile Lys Thr Ile Ser Pro Lys Gly Cys Leu Ala Gln  
 50 55 60  
 Ile Phe Phe Phe His Phe Phe Gly Val Thr Glu Ile Leu Leu Leu Thr  
 65 70 75 80  
 Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu Tyr Tyr  
 85 90 95  
 Thr Thr Ile Met Ser Arg Pro Lys Cys His Arg Leu Val Ala Gly Ser

			100					105				110			
Trp	Val	Gly	Gly	Phe	Phe	His	Ser	Ile	Ile	Gln	Ile	Phe	Ile	Thr	Leu
		115					120					125			
Pro	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Tyr	Phe	Cys	Asp
		130				135					140				
Leu	His	Pro	Leu	Phe	Lys	Leu	Ala	Cys	Thr	Asp	Thr	Phe	Val	Val	Gly
145					150					155					160
Val	Ile	Met	Phe	Val	Asn	Ser	Gly	Leu	Phe	Ser	Val	Phe	Ser	Phe	Leu
				165					170					175	
Phe	Leu	Val	Ser	Ser	Tyr	Ile	Val	Ile	Leu	Tyr	Asn	Leu	Arg	Asn	His
			180					185				190			
Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ala	Ser	His	Ile
		195					200					205			
Met	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Ala	Ile	Phe	Leu	Tyr	Leu	Arg
		210				215					220				
Pro	Ala	Ser	Thr	Tyr	Thr	Glu	Asp	Lys	Leu	Val	Ala	Val	Phe	Tyr	Thr
225					230					235					240
Val	Ile	Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Thr	Leu	Arg	Asn	Ala
				245					250					255	
Glu	Val	Lys	Asn	Ala	Val	Arg	Lys	Leu	Trp	Gly	Lys	Lys	Val	Ser	Ser
			260					265					270		
Ser	Leu	Glu													
		275													

<210> 2099  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2099

Met	Ala	Asp	Ile	His	Asn	Val	Thr	Glu	Phe	Leu	Phe	Leu	Gly	Leu	Ser
1				5				10					15		
Pro	Asn	Gln	Glu	Val	Gln	Arg	Val	Cys	Phe	Val	Leu	Phe	Leu	Leu	Leu
		20					25					30			
Tyr	Met	Ala	Ile	Val	Leu	Gly	Asn	Leu	Leu	Met	Val	Val	Thr	Val	Val
	35					40				45					
Ala	Ser	Arg	Asn	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Asp	Ser	Leu
	50				55					60					
Ser	Phe	Val	Glu	Ile	Tyr	Ser	Ser	Met	Thr	Ala	Thr	Lys	Leu	Ile	Leu
65				70					75					80	
Asp	Leu	Leu	Thr	Glu	Lys	Lys	Ser	Ile	Ser	Val	Trp	Gly	Cys	Met	Ile
			85					90					95		
Gln	Leu	Phe	Phe	Ile	His	Phe	Val	Gly	Ala	Ala	Glu	Ile	Phe	Leu	Leu
		100						105				110			
Thr	Met	Met	Ala	Tyr	Asp	Cys	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His
	115					120						125			
Tyr	Thr	Ser	Ile	Met	Asn	Gln	Ser	Val	Cys	Ala	Val	Leu	Leu	Gly	Thr
	130				135						140				
Ala	Trp	Met	Gly	Gly	Phe	Val	His	Cys	Leu	Ala	Gln	Ile	Leu	Leu	Leu
145					150					155					160
Leu	Pro	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Tyr	Phe	Cys
			165					170					175		
Asp	Val	Phe	Pro	Val	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Phe	Leu	Ile
		180						185				190			
Gly	Leu	Leu	Ile	Val	Ala	Asn	Gly	Thr	Leu	Ser	Val	Ile	Ser	Phe	
		195					200					205			



Val	Val	Leu	Leu	Ala	Ser	Tyr	Val	Val	Ile	Phe	Phe	Tyr	Leu	Arg	Thr
210						215					220				
Gln	Ser	Ala	Glu	Gly	Trp	Arg	Lys	Thr	Leu	Ala	Thr	Cys	Gly	Cys	His
225					230					235					240
Val	Thr	Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Cys	Val	Phe	Ile	Tyr	Leu
				245					250					255	
Arg	Pro	Ser	Asp	Thr	Leu	Pro	Val	Asp	Lys	Met	Ile	Ala	Val	Phe	Tyr
			260					265					270		
Thr	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn
		275					280					285			
Ala	Glu	Val	Lys	Lys	Thr	Met	Lys	Cys	Leu	Trp	Phe	Arg	Thr	Met	Lys
290						295					300				
Val	Asp	Glu	Lys												
305															

<210> 2100  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 2100

Met	Asn	Tyr	Arg	Thr	Asn	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Phe	Ser
1				5					10					15	
Gln	Thr	Lys	Glu	Ile	Glu	Val	Ile	Cys	Phe	Val	Leu	Phe	Leu	Leu	Cys
			20					25					30		
Tyr	Ile	Ala	Ile	Leu	Phe	Gly	Asn	Leu	Leu	Ile	Met	Ile	Ser	Val	Thr
		35					40					45			
Trp	Ser	His	Leu	Ile	Asn	Gln	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Tyr	Leu
	50				55					60					
Ala	Leu	Ser	Asp	Leu	Cys	Tyr	Thr	Ser	Thr	Val	Thr	Pro	Lys	Leu	Ile
65					70					75					80
Ile	Asn	Leu	Val	Thr	Thr	Lys	Lys	Ser	Ile	Ser	Tyr	Asn	Gly	Cys	Met
				85					90					95	
Thr	Gln	Leu	Phe	Thr	Met	His	Phe	Phe	Gly	Gly	Ile	Glu	Val	Phe	Ile
			100					105					110		
Leu	Thr	Gly	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Thr	Ile	Leu	Met	Ser	Arg	Gln	Lys	Cys	Asp	Ala	Val	Ile	Ala
	130					135					140				
Ala	Ser	Cys	Ala	Gly	Gly	Phe	Leu	His	Ser	Phe	Gly	Gln	Phe	Ile	Leu
145					150					155					160
Ala	Val	Phe	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Glu	Ile	Asp	His	Tyr	Phe
				165					170					175	
Cys	Asp	Val	Tyr	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Thr	Asp	Thr	Arg	Lys
			180					185					190		
Ile	Gly	Phe	Leu	Val	Ile	Ala	Asn	Ser	Gly	Leu	Met	Gly	Leu	Val	Thr
		195					200					205			
Phe	Val	Val	Leu	Leu	Ile	Ser	Tyr	Gly	Val	Ile	Leu	Tyr	Thr	Val	Arg
		210				215					220				
Ser	Tyr	Ser	Ala	Glu	Asn	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser
225					230					235					240
His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Ala	Pro	Leu	Leu	Phe	Ile	Tyr
				245					250					255	
Ile	Arg	Pro	Ala	Thr	Thr	Leu	Pro	Glu	Asp	Lys	Val	Phe	Ala	Leu	Phe
			260					265					270		
Tyr	Thr	Ile	Ile	Ala	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg



<212> PRT  
 <213> Mus musculus

<400> 2102

His	Pro	Ser	Leu	Arg	Leu	Phe	Leu	Trp	Ala	Val	Ser	Leu	Ser	Leu	Tyr
1				5					10					15	
Thr	Val	Ala	Leu	Met	Gly	Asn	Met	Val	Ile	Ile	Ala	Leu	Ile	Thr	Ser
			20					25					30		
Ser	Thr	Gly	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Asn	Leu	Ala
		35					40					45			
Thr	Met	Asp	Ile	Ile	Cys	Thr	Ser	Ser	Val	Leu	Pro	Lys	Ala	Leu	Val
	50					55					60				
Gly	Leu	Leu	Tyr	Glu	Glu	Asn	Thr	Ile	Ser	Phe	Lys	Gly	Cys	Met	Ala
65					70					75					80
Gln	Leu	Phe	Phe	Leu	Leu	Trp	Ser	Gly	Ser	Ser	Glu	Val	Leu	Leu	Leu
				85				90						95	
Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Cys	Pro	Leu	His
			100					105					110		
Tyr	Ser	Ser	Arg	Met	Ser	Pro	Gln	Leu	Cys	Ala	Ala	Leu	Ala	Val	Ala
		115					120					125			
Val	Trp	Ser	Ile	Cys	Ala	Val	Asn	Ala	Ser	Val	His	Thr	Gly	Leu	Met
	130					135					140				
Thr	Gln	Leu	Ser	Phe	Cys	Gly	Pro	Lys	Val	Ile	Thr	His	Phe	Phe	Cys
145					150					155					160
Glu	Ile	Pro	Pro	Leu	Leu	Leu	Ser	Cys	Ser	Pro	Thr	Tyr	Val	Asn	
				165				170					175		
Ser	Val	Met	Thr	Leu	Val	Ala	Asp	Ala	Phe	Tyr	Gly	Gly	Ile	Asn	Phe
			180					185					190		
Leu	Leu	Thr	Leu	Leu	Ser	Tyr	Gly	Cys	Ile	Ile	Ala	Ser	Ile	Leu	His
		195					200					205			
Met	Arg	Ser	Ala	Glu	Gly	Lys	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser
	210					215					220				
His	Leu	Ile	Val	Val	Ser	Val	Tyr	Tyr	Ser	Ser	Leu	Phe	Cys	Ala	Tyr
225					230					235					240
Ile	Ser	Pro	Ala	Ser	Ser	Tyr	Ser	Pro	Glu	Arg	Ser	Lys	Phe		
				245					250						

<210> 2103  
 <211> 208  
 <212> PRT  
 <213> Mus musculus

<400> 2103

Ser	Ser	Phe	Phe	Leu	Trp	Ser	Gly	Ser	Ser	Glu	Leu	Leu	Leu	Leu	Thr
1				5					10					15	
Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Cys	Pro	Leu	His	Tyr
			20					25					30		
Ser	Ser	Arg	Met	Ser	Pro	Gln	Leu	Cys	Ala	Ala	Leu	Val	Val	Ala	Val
		35					40					45			
Trp	Ser	Ile	Cys	Ala	Val	Asn	Ala	Ser	Val	His	Thr	Gly	Leu	Met	Thr
	50					55					60				
Gln	Leu	Ser	Phe	Cys	Gly	Pro	Lys	Val	Ile	Thr	His	Phe	Phe	Cys	Glu
65					70					75					80
Ile	Pro	Pro	Leu	Leu	Leu	Ser	Cys	Ser	Ser	Thr	Tyr	Val	Asn	Ser	
				85				90					95		
Val	Met	Thr	Leu	Val	Ala	Asp	Ala	Phe	Tyr	Gly	Gly	Ile	Asn	Phe	Leu



Arg	Asn	Lys	Asp	Ile	Lys	His	Ser	Leu	Lys	Arg	Leu	Lys	Ser	Ser	Phe
290						295					300				
Met	Asn	His	Lys	Val	Asn	Thr									
305					310										

<210> 2105  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2105

Met	Ser	Asn	Tyr	Thr	Gly	Gln	Ser	Tyr	Phe	Thr	Leu	Val	Gly	Leu	Phe
1				5					10					15	
Ser	Gln	Ser	Lys	His	Pro	Ala	Leu	Leu	Ala	Val	Val	Ile	Phe	Val	Val
			20					25					30		
Phe	Leu	Met	Ser	Leu	Ser	Gly	Asn	Ala	Leu	Leu	Ile	Leu	Leu	Ile	Leu
		35					40					45			
Ser	Asp	Thr	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser	Gln	Leu
	50					55					60				
Ser	Leu	Met	Asp	Met	Met	Tyr	Ile	Ser	Val	Thr	Val	Pro	Lys	Met	Leu
65				70					75					80	
Met	Asp	Arg	Ile	Leu	Gly	Asn	His	Lys	Val	Ser	Gln	Ala	Ala	Ala	Cys
			85						90					95	
Gly	Met	Gln	Met	Phe	Leu	Tyr	Met	Ser	Leu	Gly	Gly	Ser	Glu	Phe	Leu
		100						105					110		
Leu	Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro
		115					120					125			
Leu	Arg	Tyr	Pro	Val	Leu	Met	Asn	His	Arg	Val	Cys	Leu	Leu	Leu	Ile
	130					135					140				
Ser	Thr	Cys	Trp	Ile	Leu	Gly	Ser	Leu	Asp	Gly	Phe	Met	Phe	Thr	Pro
145				150					155						160
Val	Thr	Met	Thr	Phe	Pro	Phe	Cys	Gly	Ser	Arg	Glu	Ile	His	His	Phe
				165				170						175	
Phe	Cys	Glu	Ala	Pro	Ala	Val	Thr	Lys	Leu	Ser	Cys	Ser	Asp	Thr	Trp
		180						185					190		
Leu	Tyr	Glu	Thr	Leu	Met	Tyr	Val	Cys	Cys	Val	Leu	Met	Ile	Leu	Ile
	195						200					205			
Pro	Val	Thr	Val	Ile	Ser	Gly	Ser	Tyr	Thr	Ser	Ile	Leu	Leu	Thr	Val
	210					215					220				
Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Ala	Thr	Cys
225				230					235						240
Ser	Ser	His	Met	Thr	Val	Val	Thr	Leu	Phe	Tyr	Gly	Ala	Ala	Ile	Tyr
			245						250					255	
Thr	Tyr	Ile	Phe	Pro	Val	Ser	Leu	His	Ser	Pro	Glu	Lys	Asp	Met	Val
		260						265					270		
Val	Ser	Val	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asn	Val	Thr	Glu	Gly	Tyr	Glu	Glu	Thr	Val
	290				295						300				
Gly	Tyr	Lys	Thr	Pro	Leu	Ser	Gln	Lys	Gln						
305					310										

<210> 2106  
 <211> 208  
 <212> PRT

<213> Mus musculus

<400> 2106

Met	Glu	Ser	Gly	Asn	Ser	Thr	Arg	Arg	Ile	Pro	Ser	Phe	Phe	Leu	Leu
1				5					10					15	
Gly	Phe	Ser	Glu	Asn	Pro	His	Leu	Gln	Phe	Leu	Ile	Phe	Val	Leu	Phe
			20					25					30		
Leu	Ser	Met	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Met
		35					40					45			
Val	Ile	Ile	Thr	Gln	Ser	Pro	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ala	Asn	Leu	Ser	Phe	Val	Asp	Ile	Cys	Phe	Thr	Ser	Thr	Thr	Val	Pro
65					70					75					80
Lys	Met	Leu	Val	Asn	Ile	Gln	Thr	Gln	Ser	Lys	Ala	Ile	Thr	Tyr	Ala
				85					90					95	
Asp	Cys	Ile	Ser	Gln	Met	Ser	Val	Phe	Leu	Val	Phe	Ala	Glu	Leu	Asp
			100					105					110		
Asn	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
	115						120					125			
His	Pro	Leu	Tyr	Tyr	Thr	Phe	Ile	Val	Asn	Gln	His	Leu	Cys	Ile	Leu
	130					135					140				
Met	Val	Leu	Leu	Ser	Trp	Val	Val	Ser	Ile	Leu	His	Ala	Phe	Leu	Gln
145					150					155					160
Ser	Ser	Ile	Val	Leu	Gln	Leu	Thr	Phe	Cys	Gly	Asp	Val	Lys	Ile	Pro
				165					170					175	
His	Phe	Phe	Cys	Glu	Leu	Asn	Gln	Leu	Ser	Gln	Leu	Thr	Cys	Leu	Asp
			180				185					190			
Ser	Leu	Ser	Ser	His	Leu	Ile	Met	Asn	Leu	Val	Pro	Val	Leu	Leu	Gly
		195					200					205			

<210> 2107

<211> 221

<212> PRT

<213> Mus musculus

<400> 2107

Phe	Leu	Ala	Cys	Ala	Ala	Asp	Val	Leu	Leu	Leu	His	Ile	Trp	Leu	Thr
1				5					10					15	
His	Ser	Phe	Leu	Leu	Thr	Val	Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala	Ile
			20					25					30		
Cys	His	Pro	Leu	Arg	Tyr	Asn	Val	Leu	Met	Ser	Pro	Arg	Gly	Cys	Ala
		35					40					45			
Cys	Leu	Val	Thr	Trp	Ser	Trp	Val	Gly	Gly	Ser	Phe	Met	Gly	Thr	Val
	50					55					60				
Val	Thr	Thr	Ala	Ile	Phe	Asn	Leu	Thr	Phe	Cys	Gly	Pro	Asn	Glu	Ile
65				70						75					80
His	His	Phe	Ala	Cys	His	Val	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Gly
			85						90					95	
Glu	Asn	Val	Leu	Glu	Val	Ala	Lys	Gly	Val	Gly	Ile	Val	Cys	Ile	Thr
			100					105					110		
Ala	Leu	Leu	Gly	Cys	Phe	Leu	Leu	Ile	Leu	Leu	Ser	Tyr	Ala	Phe	Ile
	115						120					125			
Val	Val	Thr	Ile	Leu	Lys	Ile	Pro	Ser	Ala	Glu	Gly	Arg	His	Lys	Ala
	130					135					140				
Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Val	Val	His	Tyr	Gly
145					150					155					160



<210> 2109  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 2109  
 Met Asp Val Ser Asn Gln Thr Thr Val Thr Glu Phe Val Leu Leu Gly  
 1 5 10 15  
 Leu Ser Ala His Pro Lys Leu Glu Lys Thr Phe Phe Val Leu Ile Leu  
 20 25 30  
 Ser Met Tyr Leu Val Ile Leu Leu Gly Asn Gly Val Leu Ile Leu Val  
 35 40 45  
 Ser Ile Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Gly  
 50 55 60  
 Asn Leu Ser Phe Leu Asp Ile Cys Tyr Thr Thr Ser Ser Val Pro Leu  
 65 70 75 80  
 Val Leu Asp Gly Phe Leu Thr Pro Arg Lys Thr Ile Ser Phe Ser Gly  
 85 90 95  
 Cys Ala Val Gln Met Phe Leu Ser Phe Ala Met Gly Ala Thr Glu Cys  
 100 105 110  
 Val Leu Leu Gly Met Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Arg Tyr Pro Val Val Met Asn Lys Ala Ala Tyr Val Pro Met  
 130 135 140  
 Ala Val Ser Ser Trp Val Ala Gly Gly Ala Asn Ser Leu Val Gln Ile  
 145 150 155 160  
 Ser Leu Ala Val Gln Leu Pro Phe Cys Gly Asp Asn Val Ile Asn His  
 165 170 175  
 Phe Ile Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp Ile  
 180 185 190  
 Ser Ile Asn Val Ile Ser Met Gly Val Ala Asn Val Ile Phe Leu Gly  
 195 200 205  
 Val Pro Val Leu Phe Ile Phe Val Ser Tyr Ile Phe Ile Leu Ser Thr  
 210 215 220  
 Ile Leu Arg Ile Pro Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ala His Leu Thr Val Val Ile Ile Phe Tyr Gly Thr Ile Leu  
 245 250 255  
 Phe Met Tyr Gly Lys Pro Lys Ser Lys Asp Pro Leu Gly Ala Asp Lys  
 260 265 270  
 Gln Asp Leu Ala Asp Lys Leu Ile Ser Leu Phe Tyr Gly Leu Leu Thr  
 275 280 285  
 Pro Met Leu Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys  
 290 295 300  
 Ala Ala Val Arg Asn Leu Ala Ser His Arg Cys Leu Thr Phe  
 305 310 315

<210> 2110  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2110  
 Met Glu Asp Met Ala Ala Gly Asn His Cys Thr Val Thr Glu Phe Phe  
 1 5 10 15



Leu Val Gly Leu Ser Glu Lys Pro Glu Leu Arg Leu Pro Leu Phe Leu  
 20 25 30  
 Phe Phe Thr Gly Ile Tyr Leu Ile Thr Val Thr Gly Asn Val Gly Met  
 35 40 45  
 Ile Thr Leu Ile Gly Leu Ser Ser His Leu His Thr Pro Met Tyr Phe  
 50 55 60  
 Phe Leu Asp Ser Leu Ser Phe Ile Asp Phe Cys Gln Pro Lys Met Leu  
 65 70 75 80  
 Val Ser Phe Leu Thr Lys Gln Asn Ile Ile Ser Tyr Thr Gly Cys Met  
 85 90 95  
 Ala Gln Leu Tyr Leu Val Ile Thr Phe Gly Val Ala Glu Cys Tyr Thr  
 100 105 110  
 Leu Ala Ala Met Ala Tyr Asp His Tyr Val Ala Ile Cys Asn Pro Leu  
 115 120 125  
 Leu Tyr Asn Val Thr Met Ser Tyr Gln Ile Tyr Ser Ser Leu Ile Ser  
 130 135 140  
 Gly Val Tyr Ile Phe Ala Val Phe Cys Ser Ser Leu Asn Thr Gly Leu  
 145 150 155 160  
 Met Phe Arg Thr Gln Phe Cys Asn Leu Asp Val Ile Asn His Tyr Phe  
 165 170 175  
 Cys Asp Leu Pro Leu Leu Lys Leu Ala Ser Ser Asn Thr Tyr Thr Asn  
 180 185 190  
 Glu Ile Leu Ile Leu Phe Phe Ala Thr Leu Asn Val Phe Val Thr Val  
 195 200 205  
 Leu Thr Ile Ile Thr Ser Tyr Ile Phe Ile Ile Ala Thr Ile Arg Cys  
 210 215 220  
 Ile His Ser Arg Glu Gly Lys Phe Lys Ala Phe Ser Thr Cys Ser Ser  
 225 230 235 240  
 His Ile Ser Ala Val Ala Ile Phe Tyr Gly Ser Gly Ala Phe Thr Tyr  
 245 250 255  
 Leu Gln Pro Ser Ser Leu Asn Ser Met Gly Gln Ala Lys Val Ser Ser  
 260 265 270  
 Val Phe Tyr Thr Thr Val Val Pro Met Leu Asn Pro Leu Ile Tyr Ser  
 275 280 285  
 Leu Arg Asn Lys Asp Val Ser Ile Ala Leu Lys Lys Ile Leu Gln Arg  
 290 295 300  
 Lys Lys Asn His Val  
 305

<210> 2111  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 2111  
 Met Leu Tyr Pro Ser Ser Met Ser Glu Ile Thr Asn Phe Thr His Asp  
 1 5 10 15  
 Pro Phe Tyr Phe Ile Leu Thr Gly Ile Pro Gly Phe Glu Asp Ile His  
 20 25 30  
 Leu Trp Ile Ser Ile Pro Phe Cys Leu Tyr Thr Ile Ser Ile Met Gly  
 35 40 45  
 Asn Thr Thr Ile Leu Thr Val Ile Cys Thr Glu Pro Ser Leu His Gln  
 50 55 60  
 Pro His Tyr Leu Phe Leu Ser Met Leu Ala Leu Thr Asp Leu Gly Leu  
 65 70 75 80  
 Ala Leu Thr Thr Leu Pro Thr Ile Met His Leu Leu Trp Phe Asn Ile

				85					90				95				
Arg	Glu	Ile	Ser	Phe	Glu	Ala	Cys	Phe	Ala	Gln	Phe	Phe	Phe	Leu	His		
			100					105					110				
Gly	Phe	Ser	Phe	Met	Glu	Ser	Ser	Val	Leu	Leu	Ala	Met	Ser	Phe	Asp		
		115					120					125					
Arg	Tyr	Val	Ala	Ile	Cys	Cys	Pro	Leu	His	Tyr	Ala	Ser	Ile	Leu	Thr		
	130				135						140						
Ser	Glu	Val	Ile	Ala	Arg	Ile	Gly	Leu	Ala	Ile	Ile	Cys	Arg	Cys	Val		
145				150					155						160		
Leu	Ala	Val	Leu	Pro	Phe	Leu	Phe	Leu	Leu	Lys	Arg	Leu	Ser	Phe	Cys		
			165					170						175			
His	Ser	His	Leu	Leu	Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Met	Ile		
		180						185					190				
His	Leu	Val	Cys	Thr	Asp	Ile	Arg	Val	Asn	Ser	Trp	Tyr	Ala	Phe	Ala		
	195					200					205						
Leu	Val	Leu	Leu	Ile	Ile	Ile	Leu	Asp	Pro	Leu	Leu	Ile	Val	Leu	Ser		
	210				215					220							
Tyr	Ala	Val	Ile	Leu	Lys	Ser	Val	Leu	Asn	Thr	Ala	Thr	Trp	Thr	Glu		
225				230					235						240		
Arg	Leu	Arg	Ala	Leu	Asn	Asn	Cys	Leu	Ser	His	Met	Leu	Ala	Val	Leu		
			245					250						255			
Val	Leu	Tyr	Val	Pro	Met	Val	Gly	Val	Ser	Met	Thr	His	Arg	Phe	Ala		
		260					265						270				
Lys	His	Ala	Ser	Pro	Leu	Val	His	Val	Leu	Met	Ala	Asn	Ile	Tyr	Leu		
		275				280						285					
Leu	Ala	Pro	Pro	Val	Met	Tyr	Pro	Ile	Ile	Tyr	Ser	Val	Lys	Thr	Lys		
	290				295					300							
Gln	Ile	Arg	Gln	Gly	Ile	Thr	Arg	Leu	Leu	Leu	Gln	Arg	Lys	Val	His		
305				310					315						320		

<210> 2112  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 2112

Met	Lys	Asn	Ser	Thr	Glu	Val	Thr	His	Phe	Leu	Leu	Leu	Gly	Leu	Thr		
1			5					10					15				
Asp	Asp	Pro	Gly	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Ile	Phe	Leu	Phe	Ile		
		20					25					30					
Tyr	Thr	Ile	Thr	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Leu	Leu	Ile	Val		
	35					40					45						
Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Asn	Leu		
	50				55						60						
Ser	Leu	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Ala	Val	Thr	Pro	Thr	Val	Met		
65				70					75					80			
Thr	Gly	Leu	Leu	Ile	Gly	Asn	Lys	Ile	Ile	Ser	Tyr	Asn	Gly	Cys	Ala		
			85					90					95				
Ala	Gln	Met	Phe	Phe	Phe	Ala	Gly	Phe	Ala	Thr	Val	Glu	Asn	Tyr	Leu		
		100				105						110					
Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Lys	Pro	Leu		
	115				120						125						
His	Tyr	Ser	Ser	Thr	Met	Thr	Thr	Ser	Val	Cys	Ile	Ser	Leu	Ser	Ile		
	130				135					140							
Val	Ser	Tyr	Ala	Cys	Gly	Phe	Leu	Asn	Ala	Ser	Ile	His	Ile	Gly	Asp		
145				150					155						160		

Thr	Phe	Ile	Leu	Ser	Phe	Cys	Arg	Ser	Asn	Val	Val	His	His	Phe	Phe
				165					170					175	
Cys	Asp	Val	Pro	Ala	Val	Met	Val	Leu	Ser	Cys	Ser	Asp	Arg	His	Val
			180					185					190		
Ser	Glu	Leu	Val	Leu	Val	Tyr	Ile	Val	Ser	Phe	Asn	Ile	Phe	Val	Ala
		195				200						205			
Leu	Ser	Val	Ile	Trp	Ile	Ser	Tyr	Ile	Phe	Ile	Phe	Ile	Thr	Ile	Phe
		210				215					220				
Lys	Met	Lys	Ser	Ser	Ala	Gly	Tyr	Arg	Lys	Ala	Ile	Ser	Thr	Cys	Ala
225					230					235					240
Ser	His	Phe	Thr	Ala	Val	Ser	Ile	Phe	Tyr	Gly	Thr	Ile	Ile	Phe	Met
				245					250					255	
Tyr	Leu	Gln	Pro	Ser	Phe	Ser	His	Ser	Met	Asp	Thr	Asp	Lys	Ile	Ala
			260					265					270		
Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Val	Tyr
		275					280					285			
Gly	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Phe	Ile	Lys	Thr	Phe	Gln
		290				295						300			
Val	Ala	Lys													
305															

<210> 2113  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (62)...(120)  
 <223> Any amino acid

<400> 2113															
Met	Asn	His	Ser	Ser	Val	Ile	Asp	Phe	Ile	Leu	Glu	Gly	Leu	Thr	Lys
1				5					10					15	
Arg	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu	Ala	Ile	Tyr
			20					25					30		
Val	Ile	Thr	Val	Val	Gly	Asn	Leu	Gly	Met	Ile	Leu	Leu	Ile	Thr	Ile
		35				40					45				
Ser	Ser	Gln	Leu	His	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Xaa	Xaa	Xaa
		50				55					60				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	Xaa
65					70				75						80
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				85					90					95	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				100					105					110	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	Leu	Leu	Gln	Lys	Gly	Tyr	Leu
				115				120				125			
Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser	Pro	Leu
						135						140			
Leu	Tyr	Asn	Ile	Val	Met	Ser	His	Lys	Val	Cys	Ser	Ile	Met	Met	Ala
145					150					155					160
Val	Val	Tyr	Ser	Leu	Gly	Phe	Phe	Gly	Ala	Thr	Val	His	Thr	Thr	Arg
				165					170					175	
Met	Thr	Met	Leu	Ser	Phe	Cys	Gly	Ser	His	Ile	Val	Ser	His	Tyr	Phe
			180					185					190		

Cys	Asp	Ile	Leu	Pro	Leu	Leu	Thr	Leu	Ser	Cys	Ser	Ser	Thr	His	Ile
	195						200					205			
Asn	Glu	Val	Leu	Leu	Phe	Ile	Ile	Gly	Gly	Val	Asn	Thr	Leu	Ala	Pro
	210					215					220				
Thr	Leu	Ala	Phe	Ile	Leu	Thr	Ser	Ile	Leu	Arg	Ile	Arg	Ser	Asn	Glu
225					230					235					240
Gly	Arg	Ser	Lys	Ala	Phe	Gly	Thr	Cys	Ser	Ser	His	Ile	Met	Ala	Val
			245						250					255	
Gly	Ile	Phe	Phe	Gly	Ser	Ile	Thr	Phe	Met	Tyr	Phe	Lys	Pro	Pro	Ser
		260						265					270		
Ser	Asn	Asn	Met	Glu	Gln	Glu	Lys	Val	Ser	Ser	Val	Phe	Tyr	Thr	Thr
	275						280					285			
Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp
	290					295					300				
Val	Lys	Asn	Ala	Leu	Lys	Lys	Met	Val	Gly	Gly	Arg	Gln	Leu	Ser	
305					310					315					

<210> 2114

<211> 335

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (102)...(108)

<223> Any amino acid

<400> 2114

Lys	Phe	Thr	Thr	Ser	Thr	Asp	Glu	Val	Leu	Phe	Lys	Arg	Glu	Lys	Leu
1				5					10					15	
Asn	Ala	Ser	Thr	Leu	Met	Glu	Phe	Ile	Leu	Leu	Gly	Phe	Ser	Asn	Val
			20					25					30		
Pro	His	Leu	Gln	Trp	Val	Leu	Phe	Met	Val	Phe	Leu	Phe	Met	Tyr	Met
		35					40					45			
Thr	Ile	Leu	Leu	Cys	Asn	Ser	Ile	Ile	Ile	Val	Leu	Ala	Lys	Thr	Asp
	50				55						60				
Pro	Ala	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Phe	Ser	Phe
65					70				75						80
Leu	Glu	Ile	Cys	Tyr	Val	Thr	Ala	Thr	Ile	Pro	Arg	Met	Leu	Met	Asp
			85					90					95		
Leu	Tyr	Thr	Lys	Glu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Glu	Thr	Phe	Leu
			100					105					110		
Cys	Leu	Pro	Val	Gln	His	Lys	Met	Tyr	Phe	Val	Leu	Thr	Leu	Gly	Gly
		115					120					125			
Thr	Glu	Cys	Leu	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
	130					135					140				
Ile	Cys	His	Pro	Leu	Gln	Tyr	Ser	Leu	Leu	Met	Lys	Asn	Lys	Val	Cys
145					150					155					160
Leu	Gln	Leu	Val	Ala	Ala	Ser	Trp	Ile	Ser	Gly	Ile	Pro	Val	Glu	Ile
				165					170					175	
Gly	Gln	Thr	Tyr	Gln	Ile	Phe	Ser	Leu	His	Phe	Cys	Ala	Ser	Asn	Arg
		180					185						190		
Ile	Asp	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys
	195					200						205			
Gly	Asp	Thr	Phe	Met	Asn	Thr	Val	Ala	Val	Tyr	Val	Val	Ala	Val	Leu
	210					215					220				

Phe	Val	Met	Val	Pro	Phe	Leu	Leu	Ile	Ile	Val	Ser	Tyr	Ile	Lys	Ile
225					230					235					240
Ile	Cys	Asn	Ile	Met	Lys	Leu	Ser	Ser	Ala	Lys	Gly	Met	Ala	Lys	Ala
				245					250					255	
Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val	Ile	Leu	Phe	Tyr	Gly
			260					265					270		
Thr	Ala	Ser	Ile	Thr	Tyr	Leu	Gln	Pro	Lys	Gln	Ser	Gln	Ser	Glu	Gly
			275				280					285			
Met	Gly	Lys	Met	Leu	Ser	Leu	Phe	Tyr	Thr	Ile	Leu	Ile	Pro	Ala	Leu
	290					295					300				
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Met	Met	Ala	Leu
305					310					315					320
Arg	Lys	Leu	His	Ser	Lys	Leu	Leu	Ile	Trp	Trp	Glu	Asn	Leu	Lys	
				325					330					335	

<210> 2115  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2115

Met	Ser	Asn	Leu	Ser	Thr	Ser	Arg	Phe	Val	Leu	Thr	Gly	Phe	Pro	Gly
1				5					10					15	
Leu	Glu	Val	Tyr	Phe	Phe	Phe	Ala	Ile	Pro	Phe	Ser	Thr	Ile	Tyr	
			20				25					30			
Ala	Met	Val	Phe	Leu	Gly	Asn	Cys	Met	Ile	Leu	His	Val	Ile	Arg	Thr
			35				40					45			
Glu	Ser	Ser	Leu	His	Gln	Pro	Met	Phe	Tyr	Phe	Leu	Ala	Met	Leu	Ala
	50					55					60				
Leu	Thr	Asp	Leu	Cys	Met	Gly	Leu	Ser	Thr	Val	His	Thr	Val	Leu	Gly
65					70					75					80
Ile	Leu	Trp	Gly	Phe	Leu	Gln	Glu	Ile	Ser	Leu	Asp	Ala	Cys	Ile	Ala
			85					90						95	
Gln	Ser	Tyr	Phe	Ile	His	Gly	Leu	Ser	Phe	Met	Glu	Ser	Ser	Val	Leu
			100					105					110		
Leu	Ala	Met	Ser	Phe	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Asn	Pro	Leu	Arg
		115				120						125			
Tyr	Ser	Ser	Ile	Leu	Thr	Asn	Asp	Arg	Ile	Leu	Lys	Ile	Gly	Val	Ala
	130					135					140				
Ile	Leu	Cys	Arg	Ser	Ser	Met	Leu	Ile	Pro	Pro	Val	Ile	Ile	Arg	Leu
145					150					155					160
Lys	Phe	Leu	Asn	Tyr	Cys	Arg	Pro	His	Phe	Leu	Ser	His	Ser	Phe	Cys
			165						170					175	
Leu	His	Gln	Asp	Leu	Ile	Arg	Met	Ala	Cys	Ser	Asp	Ile	Arg	Phe	Asn
			180					185					190		
Ser	Phe	Tyr	Ala	Leu	Ser	Leu	Val	Ile	Cys	Thr	Leu	Leu	Leu	Asp	Ala
		195					200						205		
Val	Leu	Ile	Leu	Ala	Ser	Tyr	Val	Met	Ile	Leu	His	Thr	Val	Leu	Ser
	210					215						220			
Ile	Ala	Ser	Arg	Glu	Glu	Arg	Ile	Lys	Ser	Leu	Gln	Thr	Cys	Val	Ser
225					230					235					240
His	Ile	Ser	Ala	Val	Leu	Val	Phe	Tyr	Ile	Pro	Ile	Ile	Gly	Leu	Thr
			245						250					255	
Met	Val	His	Arg	Phe	Gly	Lys	His	Leu	Ser	Pro	Leu	Val	Gln	Val	Leu
			260					265					270		
Met	Gly	Asn	Ile	Tyr	Ile	Leu	Phe	Pro	Pro	Leu	Met	Asn	Pro	Ile	Ile

	275		280		285										
Tyr	Ser	Ile	Lys	Thr	Gln	Gln	Ile	Arg	Val	Arg	Ile	Gln	Arg	Leu	Phe
	290				295						300				
Ser	Leu	Asn	Gly	Ile											
305															

<210> 2116  
 <211> 133  
 <212> PRT  
 <213> Mus musculus

<400> 2116

Met	Ser	Val	Phe	Leu	Met	Ser	Asn	Leu	Ser	Thr	Ser	Arg	Phe	Val	Leu
1				5					10					15	
Thr	Gly	Phe	Pro	Gly	Leu	Glu	Val	Tyr	Tyr	Ile	Leu	Phe	Ala	Ile	Pro
			20					25					30		
Phe	Ser	Val	Met	Tyr	Ala	Met	Val	Phe	Pro	Gly	Asn	Cys	Met	Thr	Leu
		35					40					45			
His	Val	Ile	Gln	Thr	Asp	Pro	Ser	Leu	His	Gln	Pro	Met	Phe	Tyr	Phe
	50					55					60				
Leu	Gly	Met	Leu	Ala	Leu	Thr	Asp	Leu	Cys	Met	Gly	Leu	Ser	Thr	Val
65					70					75					80
Asn	Met	Val	Leu	Gly	Ile	Leu	Gly	Asp	Phe	Leu	Gln	Glu	Ile	Ser	Leu
			85						90					95	
Asp	Ala	Cys	Ile	Tyr	Tyr	Ser	Lys	Gly	Asn	Gly	Cys	Gln	Lys	Phe	Val
			100					105					110		
Phe	Val	Asn	Ile	Asn	Phe	Lys	Pro	Tyr	Val	Ser	Val	Cys	Lys	Arg	Asn
		115					120					125			
Leu	Phe	Leu	Arg	Asn											
		130													

<210> 2117  
 <211> 230  
 <212> PRT  
 <213> Mus musculus

<400> 2117

Gln	Val	Leu	Leu	Ile	Phe	Trp	Phe	Asn	Met	Lys	Pro	Ile	Ser	Phe	Val
1				5					10					15	
Gly	Cys	Phe	Leu	Gln	Met	Phe	Val	Met	Asn	Thr	Phe	Leu	Pro	Met	Glu
			20					25					30		
Ser	Ser	Thr	Phe	Leu	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		35					40					45			
His	Pro	Leu	Arg	Tyr	Pro	Ser	Ile	Ile	Thr	Glu	Gln	Phe	Val	Ile	Asn
	50					55					60				
Ala	Ala	Ile	Phe	Ile	Val	Ala	Arg	Asn	Leu	Leu	Ala	Thr	Leu	Pro	Thr
65					70					75					80
Pro	Val	Leu	Ala	Ala	Arg	Leu	Asn	Tyr	Cys	Ala	Ser	Asn	Val	Val	Glu
			85					90					95		
Asn	Cys	Ile	Cys	Ala	Asn	Ile	Ser	Val	Ala	Lys	Leu	Ser	Cys	Gly	Asp
		100					105					110			
Ile	Arg	Leu	Asn	Lys	Leu	Tyr	Gln	Phe	Val	Ser	Val	Trp	Cys	Leu	Leu
		115					120					125			
Gly	Ser	Asp	Leu	Val	Leu	Ile	Leu	Leu	Ser	Tyr	Cys	Phe	Ile	Leu	Arg
		130					135				140				

Val	Val	Met	Cys	Gln	Gln	Ser	Gly	Gly	Thr	Val	Thr	Lys	Ala	Leu	Ser
145					150					155					160
Thr	Cys	Gly	Ser	His	Leu	Ile	Leu	Ile	Leu	Phe	Phe	Ser	Thr	Leu	Leu
				165					170						175
Leu	Val	Phe	Ile	Phe	Thr	Asn	Lys	Ala	Gly	Lys	Lys	Ile	Pro	Ser	Glu
			180					185					190		
Val	Pro	Ile	Leu	Leu	Asn	Val	Leu	His	His	Leu	Ile	Pro	Pro	Ala	Leu
		195					200					205			
Asn	Pro	Ile	Val	Tyr	Gly	Val	Arg	Thr	Gln	Glu	Ile	Lys	Gln	Gly	Ile
	210					215					220				
Ile	Lys	Leu	Phe	Lys	His										
225					230										

<210> 2118  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2118

Met	Ile	Lys	Asn	Asn	Gln	Thr	Leu	Phe	Ser	Gln	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Pro	Ala	Glu	His	Gln	Gln	Leu	Phe	Phe	Ala	Leu	Phe	Leu
			20					25					30		
Leu	Met	Tyr	Leu	Thr	Thr	Ile	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35					40					45			
Ile	Arg	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Asp	Thr	Ser	Ile	Thr	Tyr	Ala	Gly
			85					90						95	
Cys	Leu	Thr	Gln	Met	Tyr	Phe	Phe	Val	Ile	Leu	Phe	Gly	Gly	Leu	Glu
			100					105					110		
Ile	Phe	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys
	115						120					125			
Leu	Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Leu	Lys	Phe	Cys	Val	Cys
	130					135					140				
Ala	Val	Leu	Ile	Ser	Trp	Val	Phe	Asn	Leu	Leu	Tyr	Ser	Met	Leu	His
145					150					155					160
Thr	Leu	Leu	Leu	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Ile	Ile	Cys
				165					170					175	
His	Phe	Phe	Cys	Asp	Met	Ser	Ala	Leu	Lys	Leu	Ala	Cys	Ser	Asp	
			180					185					190		
Ile	Tyr	Ile	Asn	Glu	Leu	Met	Ile	Phe	Ile	Leu	Gly	Gly	Pro	Leu	Val
	195						200					205			
Val	Ile	Pro	Phe	Leu	Leu	Ile	Val	Val	Ser	Tyr	Val	Gln	Ile	Ile	Phe
	210					215					220				
Ser	Ile	Leu	Lys	Ala	Ser	Ser	Thr	Arg	Ala	Ile	Tyr	Lys	Val	Phe	Ser
225					230					235					240
Thr	Cys	Gly	Ser	Tyr	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Val
				245					250					255	
Ile	Gly	Leu	Tyr	Phe	Cys	Pro	Ser	Glu	Asn	Asn	Phe	Thr	Ala	Lys	Glu
			260					265					270		
Ala	Ser	Ile	Thr	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro
		275					280					285			
Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Glu	Ala	Leu	Ile	Lys

290 295 300  
Val Leu Ile Lys Lys Ile Pro Leu  
305 310

<210> 2119  
<211> 314  
<212> PRT  
<213> Mus musculus

<400> 2119  
Met Ile Met Asn Asn Gln Thr Ala Ile Phe Gln Phe Leu Leu Leu Gly  
1 5 10 15  
Leu Pro Ile Pro Pro Asp Tyr Gln His Leu Phe Tyr Ala Leu Phe Leu  
20 25 30  
Val Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Ile Ile Ile Ile Leu  
35 40 45  
Ile His Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
50 55 60  
Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys  
65 70 75 80  
Leu Leu Gln Asp Met Gln Ser Gln Val Pro Ser Ile Ser Tyr Gly Ala  
85 90 95  
Cys Leu Thr Gln Ile Tyr Phe Phe Leu Val Phe Gly Asn Met Glu Ser  
100 105 110  
Phe Leu Leu Val Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe  
115 120 125  
Pro Leu His Tyr Thr Ser Ile Met Ser Leu Lys Leu Cys Thr Cys Leu  
130 135 140  
Met Leu Leu Ser Trp Met Leu Thr Thr Ser His Ala Met Met His Thr  
145 150 155 160  
Leu Leu Ala Ala Arg Leu Ser Phe Cys Glu Asn Asn Val Val Leu Asn  
165 170 175  
Phe Phe Cys Asp Leu Phe Ala Leu Leu Lys Leu Ala Cys Ser Asp Thr  
180 185 190  
Tyr Val Asn Glu Leu Met Ile Phe Leu Val Ser Gly Leu Leu Val Val  
195 200 205  
Ile Pro Phe Leu Leu Ile Val Ile Ser Tyr Ala Lys Ile Val Ser Ser  
210 215 220  
Ile Leu Arg Val Pro Ser Thr Lys Gly Ile Tyr Lys Val Phe Ser Thr  
225 230 235 240  
Cys Arg Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile  
245 250 255  
Gly Leu Tyr Leu Cys Pro Ser Gly Asn Asn Ser Thr Leu Lys Glu Asn  
260 265 270  
Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe  
275 280 285  
Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Gly Ala Leu Val Arg Val  
290 295 300  
Val Cys Asn Lys Lys Ile Ser Leu Lys Trp  
305 310

<210> 2120  
<211> 318  
<212> PRT  
<213> Mus musculus



<400> 2120

Met	Glu	Leu	Lys	Asn	Gln	Thr	Ala	Val	Ser	Glu	Phe	His	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Asn	His	Arg	Met	Leu	Pro	Leu	Val	Phe	Ile	Met	Phe	Leu
			20					25					30		
Phe	Met	Tyr	Leu	Ile	Thr	Val	Phe	Gly	Asn	Leu	Ile	Ile	Ile	Met	Ala
		35					40					45			
Ile	Ser	Ser	Gly	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Ile	Leu	Ser	Ile	Asn	Asp	Ile	Cys	Tyr	Ser	Thr	Val	Thr	Ile	Pro	Lys
65					70					75					80
Met	Leu	Val	Asn	Ile	Gln	Ala	His	Asp	Asp	Ser	Ile	Ser	Tyr	Ile	Glu
			85						90					95	
Cys	Leu	Ser	Gln	Ile	Cys	Phe	Val	Ser	Ile	Phe	Gly	Gly	Met	Glu	Asn
			100					105					110		
Cys	Phe	Ser	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125			
Lys	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Met	Asn	Pro	Ile	Cys	Cys	Val	Leu
	130					135					140				
Met	Val	Leu	Phe	Ser	Leu	Phe	Phe	Ser	Ile	Met	Asp	Ala	Leu	Leu	His
145					150					155					160
Ser	Leu	Met	Val	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asp	Leu	Glu	Ile	Pro
			165						170					175	
His	Phe	Phe	Cys	Glu	Leu	Ala	Gln	Ile	Ile	Lys	Leu	Ala	Cys	Ser	Asp
			180				185						190		
Thr	Phe	Leu	Asn	Asn	Phe	Leu	Ile	Phe	Val	Ala	Ala	Phe	Val	Phe	Gly
		195					200					205			
Gly	Gly	Pro	Val	Cys	Gly	Ile	Ile	Phe	Ser	Tyr	Ile	Tyr	Ile	Val	Ser
	210					215					220				
Ser	Val	Leu	Arg	Met	Pro	Ser	Ser	Gly	Gly	Lys	His	Arg	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Gly
			245						250					255	
Phe	Gly	Val	Tyr	Ile	Ser	Ser	Ala	Val	Thr	Asp	Ser	Leu	Arg	Asn	Thr
		260					265						270		
Ala	Met	Ala	Ser	Met	Met	Tyr	Ser	Val	Val	Pro	Pro	Leu	Leu	Asn	Pro
	275						280					285			
Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Glu	Met	Lys	Glu	Ala	Leu	Arg	Lys
	290					295					300				
Leu	Val	Gly	Arg	Leu	Ile	Tyr	Leu	Ile	Cys	Ile	Met	Cys	Tyr		
305					310					315					

<210> 2121

<211> 309

<212> PRT

<213> Mus musculus

<400> 2121

Met	Asp	Ser	Val	Asn	Val	Ser	Leu	Val	Ala	Glu	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Leu	Thr	Asp	Lys	Pro	Tyr	Leu	Gln	Ile	Pro	Leu	Phe	Phe	Val	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Val	Thr	Ala	Leu	Gly	Asn	Leu	Ser	Leu	Ile	Ile	Leu
		35				40						45			
Thr	Val	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe

50	Asn	Leu	Ser	Phe	Val	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Phe	Thr	Pro	Gln
65	Met	Leu	Met	Asn	Phe	Ile	Arg	Lys	Asn	Thr	Thr	Ser	Tyr	Met	Glu	Cys
				85						90					95	
	Met	Ala	Gln	Leu	Tyr	Phe	Ser	Cys	Phe	Phe	Val	Ile	Ser	Glu	Cys	Tyr
				100					105					110		
	Val	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
				115					120					125		
	Leu	Leu	Tyr	Asn	Leu	Val	Met	Ser	Ser	Lys	Leu	Cys	Leu	Asn	Leu	Met
				130			135					140				
	Leu	Val	Ser	Tyr	Phe	Ile	Ala	Phe	Ser	Glu	Ser	Val	Ala	His	Thr	Ala
	145					150					155					160
	Cys	Met	Leu	Arg	Leu	Asn	Phe	Cys	Asp	Ala	Asn	Thr	Ile	Asn	Tyr	Tyr
				165						170					175	
	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Thr	Thr	Arg
				180					185					190		
	Val	Asn	Glu	Val	Val	Ile	Phe	Val	Val	Gly	Ser	Ile	Asn	Ile	Ile	Ile
				195				200					205			
	Pro	Thr	Ser	Thr	Ile	Phe	Val	Ser	Tyr	Gly	Phe	Ile	Leu	Ser	Ser	Ile
				210			215					220				
	Phe	Arg	Ile	Ser	Ser	Ser	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys
	225					230					235					240
	Ser	Ser	His	Ile	Ile	Ala	Ala	Phe	Leu	Phe	Phe	Gly	Ser	Gly	Ala	Ile
				245						250					255	
	Arg	Tyr	Phe	Lys	Pro	Ser	Ser	Asp	Gly	Ser	Met	Asp	Glu	Gly	Lys	Ile
				260					265					270		
	Ser	Ser	Val	Phe	Tyr	Thr	Asn	Val	Ile	Pro	Met	Ile	Asn	Pro	Leu	Leu
				275				280					285			
	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Val	Ala	Leu	Arg	Arg	Thr	Leu
				290			295					300				
	Arg	Lys	Arg	Asn	Phe											
	305															

<210> 2122  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2122

Met	Val	Met	Asn	Asn	Gln	Thr	Val	Ile	Ser	Gln	Leu	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	His	Ile	Pro	Pro	Asp	His	Gln	His	Gly	Phe	Tyr	Thr	Leu	Phe	Leu
			20				25						30		
Ala	Met	Tyr	Leu	Thr	Thr	Ile	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Thr	Leu
		35				40						45			
Ile	Ile	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ile
		50				55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Val	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Asp	Thr	Ser	Ile	Ser	Tyr	Ala	Gly
			85					90						95	
Cys	Leu	Thr	Gln	Met	Tyr	Phe	Leu	Met	Val	Phe	Gly	Asp	Met	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
			115				120					125			

Pro	Leu	His	Tyr	Thr	Ser	Thr	Met	Ser	Pro	Thr	Val	Leu	Cys	Val	Cys
130						135					140				
Val	Val	Leu	Leu	Ser	Trp	Val	Phe	Thr	Ile	Met	Tyr	Ser	Met	Val	His
145					150					155					160
Thr	Leu	Leu	Leu	Ser	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Pro
				165					170					175	
His	Phe	Phe	Cys	Asp	Leu	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp
			180					185					190		
Ile	Phe	Ile	Asn	Glu	Leu	Met	Ile	Phe	Ile	Leu	Gly	Gly	Pro	Val	Val
	195						200					205			
Ala	Ile	Pro	Phe	Leu	Leu	Ile	Val	Val	Ser	Tyr	Val	Arg	Ile	Val	Ser
	210					215					220				
Ser	Ile	Leu	Lys	Val	Ser	Ser	Ser	Gln	Gly	Ile	His	Lys	Ile	Phe	Ser
225					230					235					240
Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile
				245					250					255	
Ile	Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Val	Lys	Lys
			260					265					270		
Ile	Ala	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro
	275						280					285			
Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Glu	Ala	Leu	Ile	Arg
	290					295					300				
Val	Leu	Cys	Lys	Lys	Lys	Ile	Ser	Leu							
305					310										

<210> 2123  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 2123

Met	Ala	Arg	Gly	Asn	Gln	Thr	Ser	Thr	Phe	Glu	Phe	Leu	Leu	Trp	Gly
1				5					10					15	
Leu	Ser	Glu	Gln	Pro	Gln	Gln	Gln	His	Ile	Leu	Phe	Leu	Ile	Phe	Leu
			20					25					30		
Gly	Met	Tyr	Leu	Val	Thr	Val	Ala	Gly	Asn	Leu	Leu	Ile	Val	Leu	Ala
	35						40					45			
Ile	Ser	Thr	Asp	Val	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50					55					60				
Ser	Leu	Ser	Cys	Asp	Asp	Ile	Leu	Leu	Val	Ser	Thr	Ile	Val	Pro	Lys
65					70					75					80
Ala	Leu	Val	Asn	Ile	His	Thr	Gln	Ser	Arg	Thr	Ile	Ser	Tyr	Ala	Gly
			85						90					95	
Cys	Leu	Val	Gln	Leu	Tyr	Phe	Phe	Leu	Thr	Phe	Gly	Asp	Met	Asp	Ile
			100					105					110		
Phe	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
	115						120					125			
Pro	Leu	His	Tyr	Arg	Met	Ile	Met	Ser	Phe	Gln	Arg	Cys	Ser	Leu	Leu
	130					135					140				
Val	Thr	Ala	Cys	Trp	Thr	Leu	Thr	Asn	Leu	Val	Ala	Met	Thr	His	Thr
145					150					155					160
Phe	Leu	Ile	Phe	Arg	Leu	Ser	Phe	Cys	Ser	Gln	Lys	Val	Ile	Pro	Asp
			165						170					175	
Phe	Phe	Cys	Asp	Leu	Gly	Pro	Leu	Met	Lys	Ile	Ala	Cys	Ser	Glu	Thr
			180					185					190		
Arg	Ile	Asn	Glu	Leu	Val	Leu	Leu	Phe	Leu	Gly	Gly	Cys	Ile	Ile	Leu

	195					200				205					
Ile	Pro	Leu	Leu	Leu	Ile	Leu	Val	Ser	Tyr	Ile	Arg	Ile	Val	Ser	Ala
	210					215					220				
Ile	Ile	Arg	Val	Pro	Ser	Ala	Gln	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Ile	Ser	Val	Val	Ala	Leu	Phe	Phe	Gly	Thr	Val	Ile
			245						250					255	
Arg	Ala	Tyr	Leu	Cys	Pro	Ser	Ser	Ser	Ser	Asn	Ser	Val	Val	Glu	
		260						265				270			
Asp	Thr	Ala	Ala	Val	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Leu	Leu	Asn
	275						280					285			
Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Ala	Leu	Val
	290					295					300				
Arg	Ile	Leu	Lys	Gly	Lys	Val	Ser	Phe	Ser	Trp	Ala	Gln	Gly	Leu	Leu
305					310					315					320
Gln	Arg	Lys													

<210> 2124  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2124

Met	Glu	Ser	Trp	Asn	Ser	Thr	Leu	Gly	Gly	Thr	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Ile	Leu	Asp	Asp	Ser	Gly	Ser	Pro	Asp	Leu	Leu	Cys	Ala	Val	Ile	Thr
		20						25					30		
Ala	Leu	Tyr	Met	Leu	Ala	Met	Ile	Ser	Asn	Gly	Leu	Leu	Leu	Leu	Val
	35					40					45				
Ile	Thr	Met	Asp	Ala	Gln	Leu	His	Val	Pro	Met	Tyr	Leu	Leu	Leu	Gly
	50					55					60				
Gln	Leu	Ser	Leu	Ile	Asp	Phe	Phe	Leu	Thr	Ser	Ile	Ile	Ile	Pro	Lys
65					70					75					80
Ala	Val	Met	Asp	Phe	Leu	Leu	Lys	Asp	Asn	Thr	Ile	Ser	Leu	Glu	Gly
		85							90					95	
Cys	Ala	Leu	Gln	Met	Phe	Leu	Ala	Leu	Thr	Leu	Gly	Gly	Ala	Glu	Asp
		100						105					110		
Leu	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
	115					120						125			
Pro	Leu	Asn	Tyr	Met	Ile	Phe	Met	Arg	Pro	Ser	Ile	Cys	Trp	Leu	Gly
	130					135					140				
Val	Ala	Thr	Ser	Trp	Ile	Leu	Gly	Leu	Leu	Ser	Ala	Leu	Gly	Tyr	Thr
145					150					155					160
Ile	His	Thr	Met	Gln	Tyr	Pro	Phe	Cys	Lys	Ser	Arg	Lys	Ile	Arg	Asp
			165						170					175	
Leu	Tyr	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr
		180						185					190		
Ser	Lys	Tyr	Glu	Leu	Met	Val	Tyr	Val	Met	Gly	Val	Ala	Phe	Leu	Ile
	195					200						205			
Pro	Pro	Leu	Ala	Ala	Ile	Leu	Ala	Ser	Tyr	Ile	Leu	Ile	Leu	Phe	Thr
	210					215					220				
Val	Leu	Asn	Lys	Pro	Ser	Asn	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Val	Thr
225					230					235					240
Cys	Phe	Ser	His	Leu	Thr	Val	Val	Gly	Leu	Tyr	Tyr	Gly	Ala	Leu	Thr
			245						250					255	



<210> 2126  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 2126  
 Met Glu Lys Thr Asn His Ser Leu Thr Thr Gln Phe Ile Leu Val Gly  
 1 5 10 15  
 Phe Ser Asp His Pro Asp Leu Lys Thr Pro Leu Phe Leu Leu Phe Ser  
 20 25 30  
 Val Ile Tyr Leu Val Thr Met Val Gly Asn Leu Gly Leu Val Ala Val  
 35 40 45  
 Ile Tyr Leu Glu Pro Arg Leu His Thr Pro Met Tyr Ile Phe Leu Gly  
 50 55 60  
 Asn Leu Ala Leu Met Asp Ser Cys Cys Ser Cys Ala Ile Thr Pro Lys  
 65 70 75 80  
 Ile Leu Glu Asn Phe Phe Ser Val Asp Arg Arg Ile Ser Leu Tyr Glu  
 85 90 95  
 Cys Met Ala Gln Phe Tyr Phe Leu Cys Leu Ala Glu Thr Ala Asp Cys  
 100 105 110  
 Phe Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Gln Tyr His Ser Met Met Ser Lys Lys Leu Ser Ile Gln Met  
 130 135 140  
 Ser Ile Gly Thr Phe Ile Thr Ser Asn Leu His Ser Leu Ile His Val  
 145 150 155 160  
 Gly Cys Leu Leu Arg Leu Thr Phe Cys Lys Ser Asn Arg Ile Asp His  
 165 170 175  
 Phe Phe Cys Asp Ile Leu Pro Leu Tyr Arg Leu Ser Cys Thr Asp Pro  
 180 185 190  
 Phe Ile Asn Glu Leu Met Ile Tyr Ile Phe Ser Met Pro Ile Gln Val  
 195 200 205  
 Phe Thr Ile Thr Thr Val Leu Val Ser Tyr Phe Cys Ile Leu Leu Thr  
 210 215 220  
 Ile Phe Lys Met Lys Ser Lys Asp Gly Arg Gly Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ser His Phe Phe Ser Val Ser Ile Phe Tyr Val Cys Leu Leu  
 245 250 255  
 Met Tyr Ile Arg Pro Phe Asp Glu Gly Asn Lys Asp Ile Pro Val Ala  
 260 265 270  
 Val Phe Tyr Thr Ile Ile Ile Pro Leu Leu Asn Pro Phe Ile Tyr Ser  
 275 280 285  
 Leu Arg Asn Lys Glu Val Val Asn Ala Val Lys Lys Val Met Lys Thr  
 290 295 300  
 His Ser Ile Phe Lys Asn Ala Ser Ala Ser Met Ala Arg  
 305 310 315

<210> 2127  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2127  
 Met Gln Asn Gln Ser Phe Val Thr Glu Phe Ile Leu Leu Gly Leu Ser  
 1 5 10 15

Gln	Asn	Pro	Lys	Val	Glu	Lys	Ile	Leu	Phe	Val	Val	Phe	Leu	Leu	Val
			20					25					30		
Tyr	Ile	Ala	Thr	Ile	Gly	Gly	Asn	Met	Ile	Ile	Val	Val	Thr	Ile	Ile
		35					40					45			
Tyr	Ser	Pro	Ala	Leu	Leu	Ser	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ile	Phe
	50					55					60				
Leu	Ser	Phe	Leu	Asp	Ala	Cys	Thr	Ser	Ser	Thr	Val	Thr	Pro	Lys	Met
65					70					75					80
Ile	Val	Asp	Phe	Phe	Tyr	Glu	Arg	Lys	Thr	Ile	Ser	Phe	Glu	Cys	Cys
				85					90					95	
Ile	Thr	Gln	Leu	Phe	Thr	Ser	His	Phe	Phe	Ala	Gly	Val	Glu	Val	Ile
			100					105					110		
Ile	Leu	Thr	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
		115					120					125			
Leu	His	Tyr	Ser	Ser	Ile	Met	Thr	Arg	Arg	Leu	Cys	Gly	Thr	Leu	Val
	130					135					140				
Met	Val	Ala	Trp	Thr	Gly	Gly	Phe	Leu	His	Ser	Ile	Thr	Gln	Val	Ile
145					150					155					160
Phe	Thr	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Phe	Ile	Asp	His	Phe
			165						170					175	
Ile	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Gln	Leu	Ala	Cys	Thr	Asp	Thr	His
		180						185					190		
Ile	Phe	Val	Ile	Leu	Val	Phe	Ala	Asn	Ser	Gly	Ser	Phe	Cys	Ile	Ile
	195						200					205			
Ile	Phe	Ser	Leu	Leu	Ile	Val	Ser	Tyr	Gly	Val	Ile	Leu	Phe	Ser	Leu
	210					215					220				
Arg	Gly	His	Ser	Ser	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Ile	Thr	Val	Met	Ile	Leu	Phe	Phe	Val	Pro	Cys	Met	Leu	Ile
			245						250					255	
Tyr	Ala	Arg	Pro	Ser	Ser	Ala	Phe	Ser	Phe	Glu	Lys	Asn	Thr	Leu	Ile
		260					265						270		
Phe	Ala	Ser	Val	Leu	Thr	Pro	Leu	Phe	Asn	Pro	Met	Val	Tyr	Thr	Phe
		275					280					285			
Arg	Asn	Lys	Glu	Met	Lys	Asn	Ala	Ile	Arg	Lys	Met	Cys	Arg	Lys	Leu
	290					295					300				
Leu	Val	Asp	Ser	Asp	Asn	Phe									
305					310										

<210> 2128

<211> 201

<212> PRT

<213> Mus musculus

<400> 2128

Leu	Gly	Leu	Ser	Ala	Asp	Pro	Glu	Leu	Gln	Pro	Ile	Ile	Phe	Gly	Leu
1				5					10					15	
Phe	Leu	Phe	Met	Tyr	Leu	Val	Thr	Phe	Leu	Gly	Asn	Leu	Ile	Ile	Thr
		20						25					30		
Leu	Thr	Ile	Ser	Ala	Glu	Cys	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe
	35						40					45			
Leu	Ser	Asn	Leu	Ser	Val	Ala	Asp	Ile	Cys	Ile	Ser	Ser	Thr	Thr	Val
	50					55					60				
Pro	Lys	Met	Leu	Leu	Asn	Ile	Gln	Thr	Gln	Asp	His	Arg	Ile	Thr	Tyr
65					70					75					80
Ser	Gly	Cys	Leu	Thr	Gln	Ala	Cys	Phe	Val	Leu	Leu	Phe	Ala	Gly	Leu

				85					90					95			
Glu	Asn	Cys	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile		
			100					105					110				
Cys	His	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Met	Asn	Ser	Cys	Phe	Cys	Ser		
		115					120					125					
Ile	Leu	Ile	Val	Val	Ser	Leu	Ala	Ile	Ser	Ala	Val	Asn	Ala	Leu	Leu		
	130					135					140						
Leu	Ser	Leu	Met	Val	Leu	His	Leu	Asn	Phe	Cys	Thr	Lys	Val	Glu	Ile		
145				150						155					160		
Pro	His	Phe	Phe	Cys	Glu	Leu	Ala	Gln	Ile	Ile	Lys	Leu	Ala	Cys	Ser		
			165					170						175			
Asp	Thr	Leu	Ile	Asn	Asn	Ile	Leu	Ile	Tyr	Ile	Ser	Ala	Phe	Met	Phe		
		180					185						190				
Gly	Gly	Ile	Pro	Phe	Phe	Gly	Ile	Phe									
		195					200										

<210> 2129

<211> 317

<212> PRT

<213> Mus musculus

<400> 2129

Met	Val	Ser	Leu	Asn	His	Thr	Gln	Phe	His	Pro	Tyr	Phe	Leu	Leu	Leu		
1				5					10					15			
Leu	Leu	Gly	Ile	Pro	Gly	Leu	Glu	Asp	Thr	His	Leu	Trp	Ile	Gly	Phe		
		20					25						30				
Pro	Phe	Cys	Val	Val	Val	Val	Val	Tyr	Leu	Thr	Ala	Leu	Leu	Gly	Asn		
		35					40					45					
Ile	Thr	Ile	Ile	Ser	Val	Ile	Gln	Thr	Glu	His	Ser	Leu	His	Gln	Pro		
	50				55						60						
Met	Phe	Tyr	Phe	Leu	Ser	Ile	Leu	Ser	Ser	Ile	Val	Leu	Gly	Leu	Ser		
65				70						75					80		
Thr	Ser	Thr	Ile	Pro	Glu	Met	Leu	Arg	Thr	Phe	Trp	Leu	Asn	Phe	Lys		
			85					90						95			
Lys	Ile	Leu	Phe	Asp	Gly	Gly	Val	Ile	Gln	Met	Phe	Phe	Ile	His	Leu		
		100					105						110				
Phe	Ile	Gly	Met	Glu	Ser	Ala	Val	Leu	Leu	Ala	Met	Ala	Tyr	Asp	Arg		
		115				120						125					
Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	His	Tyr	Thr	Leu	Val	Leu	Thr	Asn		
	130				135						140						
Lys	Val	Val	Phe	Ile	Asn	Ala	Cys	Leu	Val	Leu	Leu	Arg	Pro	Leu	Val		
145				150					155						160		
Thr	Ala	Ile	Pro	Phe	Ile	Val	Leu	Ile	Gln	Arg	Leu	Pro	Phe	Cys	Gly		
			165					170						175			
His	Gln	Val	Ile	Leu	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Ile	Thr	Leu		
		180					185						190				
Leu	Pro	Cys	Ala	Ser	Ile	Lys	Val	Asn	Ile	Ile	Tyr	Gly	Leu	Cys	Ala		
		195				200						205					
Ile	Ser	Thr	Leu	Val	Phe	Asp	Ile	Val	Ala	Ile	Ile	Val	Ser	Tyr	Ile		
	210					215						220					
Ile	Gln	Val	Leu	His	Ala	Val	Ser	His	Leu	Pro	Ser	Arg	Asp	Ala	Arg		
225				230						235					240		
Leu	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu	Ser		
			245					250						255			
Phe	Cys	Thr	Pro	Ala	Phe	Phe	Ser	Phe	Met	Ile	Asn	Gln	Phe	Glu	Arg		
			260				265							270			



Asn	Val	Pro	Arg	Tyr	Ile	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val	Val
	275						280				285				
Ile	Pro	Pro	Ala	Leu	Asn	Pro	Val	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Lys
	290				295					300					
Ile	Arg	Glu	Arg	Val	Ala	Met	Ala	Ile	Arg	Asn	Lys	Leu			
305					310					315					

<210> 2130  
 <211> 162  
 <212> PRT  
 <213> Mus musculus

<400> 2130

Met	Asn	Trp	Ile	Leu	His	Thr	Thr	Met	Val	Ser	Pro	Asn	Gln	Thr	Val
1			5					10					15		
Val	Thr	Glu	Phe	Val	Leu	Gln	Gly	Phe	Ser	Glu	His	Pro	Ser	Leu	Arg
		20					25					30			
Leu	Phe	Leu	Met	Gly	Cys	Phe	Leu	Ser	Leu	Tyr	Thr	Val	Ala	Leu	Met
	35					40					45				
Gly	Asn	Met	Val	Ile	Ile	Ala	Leu	Ile	Thr	Ser	Ser	Thr	Gly	Leu	His
	50				55					60					
Ser	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Asn	Leu	Ala	Thr	Met	Asp	Ile	Ile
65					70				75					80	
Cys	Thr	Ser	Ser	Val	Leu	Pro	Lys	Ala	Leu	Val	Gly	Leu	Leu	Tyr	Glu
			85					90						95	
Glu	Asn	Thr	Ile	Ser	Phe	Lys	Gly	Cys	Met	Ala	Gln	Leu	Phe	Phe	Leu
			100				105						110		
Leu	Trp	Ser	Gly	Ser	Ser	Glu	Val	Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr
		115				120						125			
Asp	Arg	Tyr	Val	Ala	Ile	Cys	Cys	Pro	Leu	His	Tyr	Ser	Ser	Arg	Met
	130				135						140				
Ser	Pro	Gln	Leu	Cys	Ala	Ala	Thr	Gly	Arg	Gly	Cys	Met	Val	His	Leu
145					150					155					160
Cys	Cys														

<210> 2131  
 <211> 263  
 <212> PRT  
 <213> Mus musculus

<400> 2131

Leu	Leu	Pro	Leu	Pro	Leu	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Leu
1				5					10					15	
Leu	Ile	Ile	Val	Leu	Ile	His	Ser	Asp	Pro	Arg	Leu	His	Thr	Pro	Met
		20					25						30		
Tyr	Phe	Phe	Leu	Arg	Asn	Leu	Ser	Phe	Ala	Asp	Leu	Cys	Phe	Ser	Thr
	35					40						45			
Thr	Thr	Val	Pro	Gln	Val	Leu	Val	His	Phe	Leu	Val	Lys	Arg	Lys	Thr
	50					55					60				
Ile	Ser	Phe	Ala	Gly	Cys	Ser	Thr	Gln	Ile	Val	Val	Leu	Leu	Leu	Val
65					70				75					80	
Gly	Cys	Thr	Glu	Cys	Ala	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr
			85					90					95		
Val	Ala	Val	Cys	Lys	Pro	Leu	His	Tyr	Ser	Thr	Ile	Met	Thr	His	Trp



Ala	Phe	Phe	Thr	Pro	Ala	Leu	Phe	Ser	Phe	Leu	Ala	His	Arg	Phe	Gly
225					230					235					240
His	Asn	Ile	Pro	Arg	Tyr	Ile	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Ile
				245					250					255	
Ile	Ile	Pro	Leu	Val	Leu	Asn	Pro	Ile	Ile	Tyr	Gly	Met	Arg	Thr	Lys
			260					265					270		
Gln	Ile	Gln	Asp	Arg	Pro	Val	Thr	Ile	Leu	Phe	Ser	Lys	Glu	Val	Leu
		275					280					285			

Leu

<210> 2133  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 2133

Val	Met	Tyr	Ile	Leu	Phe	Phe	Cys	Arg	Lys	Leu	Gln	Asp	Gly	Ser	Leu
1				5					10					15	
Leu	Tyr	Phe	Phe	Pro	Leu	Leu	Phe	Ile	Tyr	Thr	Phe	Ile	Val	Ile	Gly
			20					25					30		
Asn	Leu	Leu	Ile	Phe	Phe	Ala	Val	Arg	Leu	Asp	Ser	His	Leu	His	Asn
		35					40					45			
Pro	Met	Tyr	Asn	Phe	Ile	Ser	Ile	Phe	Ser	Phe	Leu	Glu	Ile	Trp	Tyr
	50					55					60				
Thr	Thr	Ala	Thr	Ile	Pro	Lys	Met	Leu	Ser	Asn	Leu	Ile	Asn	Glu	Lys
65					70					75					80
Lys	Ser	Ile	Thr	Ile	Thr	Gly	Cys	Leu	Leu	Gln	Met	Tyr	Phe	Phe	His
				85					90					95	
Ser	Leu	Gly	Asn	Ser	Glu	Gly	Ile	Leu	Leu	Ile	Ser	Met	Ala	Val	Asp
			100					105					110		
Arg	Tyr	Ile	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Gln	Met	Thr	Met	Thr
		115					120					125			
Pro	Ser	Leu	Cys	Val	Gln	Leu	Ser	Ala	Gly	Ser	Cys	Ile	Phe	Gly	Phe
	130					135					140				
Leu	Ile	Leu	Leu	Pro	Glu	Ser	Val	Met	Ile	Ser	Thr	Leu	Pro	Phe	Cys
145					150					155					160
Gly	Pro	Asn	Gln	Ile	His	Gln	Ile	Phe	Asp	Leu	Val	Pro	Val	Leu	Ser
			165						170					175	
Leu	Ala	Cys	Thr	Asp	Thr	Ser	Met	Ile	Val	Ile	Glu	Asp	Val	Ile	His
			180					185					190		
Ala	Val	Ala	Ile	Ile	Ile	Thr	Phe	Leu	Thr	Ile	Ala	Leu	Ser	Tyr	Val
		195					200					205			
Arg	Ile	Val	Ile	Met	Ile	Leu	Arg	Ile	Pro	Ser	Ala	Glu	Gly	Arg	Lys
	210					215					220				
Lys	Ala	Phe	Ser	Thr	Cys	Ala	Gly	His	Leu	Met	Val	Phe	Leu	Ile	Phe
225					230					235					240
Phe	Gly	Ser	Val	Ser	Leu	Met	His	Leu	Arg	Phe	Asn	Ala	Thr	Tyr	Pro
				245					250					255	
Pro	Val	Leu	Glu	Thr	Ala	Ile	Ala	Leu	Met	Phe	Thr	Val	Leu	Ala	Pro
			260					265					270		
Phe	Phe	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Glu	Asn
		275					280					285			
Ala	Ile	Lys	Arg	Leu	Phe	Cys	Leu	His	Lys	Val	Leu	Asn	Thr	Ser	Glu
	290					295					300				

Ser

305

<210> 2134  
<211> 286  
<212> PRT  
<213> Mus musculus

<400> 2134  
Trp Leu His Ser Thr Leu Phe Tyr Phe Thr Ser Asn Phe Leu Glu Ile  
1 5 10 15  
Pro Gly Leu Glu Asn Met His Cys Trp Ile Gly Phe Pro Phe Phe Ala  
20 25 30  
Val Leu Leu Thr Ala Val Leu Gly Asn Ile Thr Ile Val Cys Val Ile  
35 40 45  
Gln Thr Glu Tyr Ser Leu Pro Gln Pro Met Phe Tyr Phe Leu Ala Ile  
50 55 60  
Leu Ser Ser Thr Asp Leu Ser Ser His Leu Gln Ser Pro Gln Phe Leu  
65 70 75 80  
Glu Ser Cys Ser Arg Lys Asp Ile Ile Gln Met Phe Cys Ile Tyr Val  
85 90 95  
Phe Ser Gly Met Glu Ser Ala Val Leu Val Ala Met Ala Tyr Asp His  
100 105 110  
Phe Met Ala Asn Cys Cys Pro Leu His Tyr Thr Leu Val Leu Thr Asn  
115 120 125  
Lys Val Ile Phe Ile Ile Ser Trp Val Ile Leu Leu Arg Ser Leu Val  
130 135 140  
Phe Phe Ala Met Pro Phe Val Leu Leu Thr Leu Trp Leu Pro Phe Tyr  
145 150 155 160  
Lys His Gln Ile Thr Leu His Leu His Gln Cys His Gln Ile Tyr Gly  
165 170 175  
Leu Cys Ala Thr Pro Ile Leu Ile Cys Asp Ile Val Ala Ile Ile Ile  
180 185 190  
Ser Tyr Val Gln Ile Phe Ser Ala Ala Phe Gln Leu Ser Ser Gln Asp  
195 200 205  
Ala Gln Leu Lys Ala Leu Gly Thr Cys Gly Ser His Ala Cys Cys His  
210 215 220  
Leu Thr Phe Tyr Thr Leu Val Phe Phe Ser Phe Met Thr His Arg Phe  
225 230 235 240  
Gly His Asn Ile Pro His Cys Ile His Ile Leu Val Ala Ser Val Tyr  
245 250 255  
Val Val Ile Leu Pro Val Leu Asn Pro Leu Ile Tyr Ser Ile Arg Thr  
260 265 270  
Lys Trp Ile Ile Glu Gln Val Leu Lys Met Phe Cys Lys Lys  
275 280 285

<210> 2135  
<211> 317  
<212> PRT  
<213> Mus musculus

<400> 2135  
Ser Ser Asn Thr Leu Asn Tyr Thr Asn Val Arg Asp Ile Trp Tyr Thr  
1 5 10 15  
Met Ile Gly Ile Pro Gly Leu Glu Glu Ser His Ile Trp Ile Ser Ile  
20 25 30

Pro	Ile	Cys	Ser	Ile	Tyr	Ile	Val	Ala	Ile	Ala	Gly	Asn	Ala	Leu	Leu
		35					40					45			
Leu	Phe	Leu	Ile	Ile	Thr	Glu	Arg	Ser	Leu	His	Glu	Pro	Met	Tyr	Leu
	50					55					60				
Phe	Leu	Ser	Met	Leu	Ala	Leu	Ala	Asp	Ile	Leu	Ser	Thr	Val	Thr	Thr
65					70					75					80
Pro	Lys	Met	Leu	Ala	Ile	Phe	Trp	Phe	Arg	Ala	Gly	Gly	Ile	Ser	Phe
				85					90					95	
Ala	Ser	Cys	Val	Ser	Gln	Met	Phe	Phe	Leu	His	Phe	Ile	Phe	Val	Ala
			100					105					110		
Glu	Ser	Ala	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Val	Ile
		115					120					125			
Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Thr	Ile	Leu	Thr	Thr	Ser	Val	Ile	Ile
	130					135					140				
Lys	Met	Gly	Ile	Ala	Ala	Val	Ile	Arg	Ser	Phe	Phe	Ile	Cys	Phe	Pro
145					150					155					160
Leu	Ile	Phe	Leu	Val	Tyr	Arg	Leu	Thr	Tyr	Cys	Gly	Arg	Asn	Ile	Ile
				165					170					175	
Arg	His	Ser	Tyr	Cys	Glu	His	Met	Gly	Ile	Ala	Arg	Leu	Ala	Cys	Asp
			180					185					190		
Ser	Ile	Lys	Val	Asn	Ile	Tyr	Tyr	Gly	Met	Ile	Val	Ala	Leu	Phe	Ser
	195						200					205			
Ile	Cys	Leu	Asp	Ala	Val	Leu	Ile	Ile	Val	Ser	Tyr	Ala	Leu	Ile	Leu
	210					215					220				
Cys	Ala	Val	Phe	Arg	Ile	Pro	Ser	Arg	Asp	Ala	Arg	Leu	Lys	Ala	Leu
225					230					235					240
Gly	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu	Leu	Phe	Tyr	Thr	Pro
				245					250					255	
Ala	Phe	Phe	Ser	Phe	Phe	Ala	His	Arg	Phe	Gly	Gly	His	Ser	Ile	Pro
			260					265					270		
Leu	His	Val	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val	Val	Val	Pro	Pro
		275					280					285			
Ser	Val	Asn	Pro	Ile	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Gln	Ile	Gln	Glu
	290					295					300				
Arg	Ile	Ile	Gln	Met	Phe	Ser	Leu	Gly	Lys	Ser	Phe	Cys			
305					310					315					

<210> 2136

<211> 245

<212> PRT

<213> Mus musculus

<400> 2136

Met	Leu	His	Met	Gln	Asp	Asn	Thr	Glu	Phe	Leu	Ser	Asn	Phe	Thr	Ser
1				5					10					15	
Gln	Leu	Pro	Thr	Phe	Leu	Leu	Thr	Gly	Ile	Pro	Gly	Leu	Glu	Ser	Ala
			20					25					30		
His	Ser	Trp	Ile	Ser	Ile	Pro	Phe	Cys	Cys	Leu	Tyr	Ala	Thr	Ala	Leu
		35					40					45			
Ser	Gly	Asn	Ser	Met	Ile	Leu	Phe	Ile	Ile	Val	Thr	Gln	His	Ser	Leu
	50					55					60				
His	Glu	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Val	Leu	Ser	Ala	Thr	Asp	Leu
65					70					75					80
Gly	Leu	Thr	Phe	Ser	Thr	Met	Ser	Thr	Thr	Leu	Arg	Ile	Leu	Trp	Phe
				85					90					95	
Gln	Ala	Asn	Glu	Ile	Ser	Leu	Asp	Phe	Cys	Ile	Val	Gln	Met	Phe	Phe



His Ile Ser Val Val Ile Leu  
245

<210> 2138  
<211> 219  
<212> PRT  
<213> Mus musculus

<400> 2138  
Ser Ile Ser Ile Met Gly Cys Met Leu Gln Leu Leu Ala Tyr Gly Thr  
1 5 10 15  
Phe Ala Thr Ile Asp Ser Phe Ile Leu Ala Ala Met Ala Val Asp Arg  
20 25 30  
Tyr Val Ala Ile Cys Asn Pro Leu Arg Tyr Pro Ile Val Met Ser Gln  
35 40 45  
Arg Leu Cys Ile Leu Leu Leu Val Gly Ser Tyr Thr Met Gly Phe Leu  
50 55 60  
Asn Ala Ser Val Asn Thr Ser Phe Thr Phe Ser Leu Lys Phe Cys Lys  
65 70 75 80  
Ser Asn Ala Ile Asn His Phe Phe Cys Asp Glu Pro Pro Ile Leu Ala  
85 90 95  
Leu Ser Cys Ser Ser Ile Asp Phe Ser Ile Met Leu Leu Thr Val Phe  
100 105 110  
Val Gly Phe Asn Leu Val Ser Thr Val Leu Val Val Ile Phe Ser Tyr  
115 120 125  
Thr Tyr Val Leu Ser Ala Ile Leu Arg Met Ser Ser Ala Ala Gly Arg  
130 135 140  
Lys Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Ala Val Thr Ile  
145 150 155 160  
Phe Tyr Gly Thr Leu Ala Tyr Met Tyr Leu His Pro His Thr Asn Asp  
165 170 175  
Ser Gln Glu Gln Glu Lys Ala Ala Ser Val Phe Tyr Gly Ile Ile Ile  
180 185 190  
Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Gln Asp Val Ile  
195 200 205  
Glu Ala Phe Lys Lys Ile Val Lys Lys Cys Leu  
210 215

<210> 2139  
<211> 312  
<212> PRT  
<213> Mus musculus

<400> 2139  
Met Ala Glu Gly Asn Gln Ser Thr Val Thr Glu Phe Ile Leu Thr Gly  
1 5 10 15  
Leu Thr Asn Lys Pro Glu Leu Gln Leu Pro Leu Phe Leu Leu Phe Leu  
20 25 30  
Gly Ile Tyr Leu Phe Thr Glu Leu Gly Asn Leu Gly Met Val Ile Leu  
35 40 45  
Ile Ser Ile Ser Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
50 55 60  
Ser Leu Ser Phe Ile Asp Leu Cys Tyr Ser Thr Val Ile Ile Pro Lys  
65 70 75 80  
Met Leu Val Asn Phe Val Thr Glu Lys Asn Ile Ile Ser Tyr Pro Glu





Val	Glu	Leu	Ser	Cys	Ser	Asp	Val	Ser	Val	Ser	Val	Leu	Val	Thr	Ser
				165					170					175	
Phe	Phe	Val	Gly	Leu	Val	Thr	Val	Ile	Thr	Val	Phe	Val	Ile	Ala	Ile
			180					185					190		
Ser	Tyr	Ile	Tyr	Ile	Leu	Ile	Thr	Ile	Leu	Lys	Met	Arg	Ser	Thr	Glu
		195					200					205			
Gly	Ser	His	Arg	Ala	Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Val
	210					215					220				
Thr	Leu	Phe	Tyr	Gly	Thr	Val	Thr	Phe	Ile	Tyr	Val	Ile	Pro	Lys	Ser
225					230					235					240
Asn	Tyr	Ser	Thr	Asp	Gln	Lys	Lys	Val	Val	Ser	Val	Phe	Tyr	Thr	Val
				245					250					255	
Val	Ile	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Gln
			260					265					270		
Ile	Lys	Gly	Ala	Leu	Lys	Arg	Leu	Leu	Gly	Lys	Lys	Ile	Phe	Ser	
		275					280					285			

<210> 2141  
 <211> 89  
 <212> PRT  
 <213> Mus musculus

<400> 2141

Met	Ser	Ala	Ser	Leu	Lys	Asp	Phe	Asn	Ser	Ser	Lys	Phe	Leu	Val	Ser
1				5					10					15	
Glu	Phe	Ile	Leu	Leu	Gly	Phe	Pro	Gly	Ile	His	Ser	Trp	Gln	His	Trp
			20					25					30		
Leu	Ser	Leu	Pro	Leu	Thr	Leu	Leu	Tyr	Leu	Ser	Ala	Ile	Gly	Thr	Asn
		35				40						45			
Val	Leu	Ile	Leu	Ile	Ile	Ile	Cys	Gln	Asp	Pro	Ser	Leu	Lys	Gln	Pro
	50				55					60					
Met	Tyr	Leu	Phe	Leu	Gly	Ile	Leu	Ser	Leu	Val	Asp	Met	Gly	Leu	Ala
65					70					75					80
Thr	Thr	Ile	Met	Pro	Lys	Ile	Leu	Ala							
				85											

<210> 2142  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 2142

Leu	Ala	Phe	Leu	Glu	Tyr	Gly	Asp	His	Thr	Thr	Val	Lys	Glu	Cys	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Phe	Arg	Val	Ile	Leu	Phe	Ser
			20					25					30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Phe	Gly	Asn	Leu	Ser	Thr
		35				40						45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe
	50				55					60					
Phe	Leu	Ser	His	Leu	Gly	Ser	Pro	Asp	Ile	Gly	Ala	Ser	Ser	Val	Thr
65					70					75					80
Pro	Ile	Met	His	Val	Asn	Phe	Leu	Val	Asp	Lys	Asn	Ile	Ile	Met	Thr
			85					90					95		
Leu	Gly	Cys	Asn	Ile	His	Leu	Gly	Ser	Gly	Ala	Phe	Phe	Gly	Thr	Val



Phe	Phe	Cys	Asn	Phe	Asp	Pro	Leu	Ala	Glu	Leu	Ser	Cys	Ser	Asp	Val
			180					185					190		
Ser	Val	Ser	Ile	Leu	Ile	Ser	Phe	Leu	Ala	Ala	Ser	Ile	Ala	Ile	Ile
		195					200					205			
Thr	Gly	Phe	Val	Ile	Ala	Phe	Ser	Tyr	Ser	Tyr	Ile	Leu	Ile	Thr	Ile
	210						215				220				
Leu	Lys	Met	His	Ser	Thr	Lys	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Glu	Thr	Ile	Thr	Phe
				245					250					255	
Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Thr	Gly	Gln	Asn	Lys	Val
			260					265					270		
Ala	Ser	Gln	Phe	Tyr	Met	Val	Val	Ile	Pro	Met	Leu	Asn	Leu	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Ser	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Leu	Lys	Arg	Gln	Leu
	290					295					300				
Asp	Met	Lys	Thr	Phe	Ser	Tyr	Asn	Asn	Leu	Leu	Phe	Cys	Thr	Thr	Ile
305					310					315					320

<210> 2144

<211> 336

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (205)...(236)

<223> Any amino acid

<400> 2144

Met	Ala	Leu	Ser	Asn	Ser	Ser	Trp	Arg	Gln	Pro	Gln	Pro	Pro	Phe	Phe
1				5					10					15	
Leu	Val	Gly	Val	Pro	Gly	Leu	Glu	Glu	Ser	Gln	His	Trp	Ile	Ala	Leu
			20					25					30		
Pro	Leu	Gly	Ile	Leu	Tyr	Leu	Phe	Ala	Leu	Val	Gly	Asn	Val	Thr	Ile
		35					40					45			
Ile	Phe	Ile	Ile	Trp	Thr	Asp	Ser	Ser	Leu	His	Gln	Pro	Met	Tyr	Leu
	50					55					60				
Phe	Leu	Ala	Met	Leu	Ala	Ala	Ile	Asp	Leu	Val	Leu	Ala	Ser	Ser	Thr
65					70					75					80
Ala	Pro	Lys	Ala	Leu	Thr	Val	Leu	Leu	Ala	His	Ala	His	Glu	Ile	Gly
				85					90					95	
Tyr	Ile	Val	Cys	Leu	Thr	Gln	Met	Phe	Phe	Ile	His	Ala	Phe	Ser	Ser
			100					105					110		
Met	Glu	Ser	Gly	Ile	Leu	Val	Ala	Met	Ala	Leu	Asp	Arg	Tyr	Val	Ala
		115					120					125			
Ile	Cys	His	Pro	Leu	Arg	His	Ser	Thr	Ile	Leu	His	Pro	Gly	Ile	Ile
	130					135					140				
Gly	Arg	Ile	Gly	Leu	Val	Val	Leu	Val	Arg	Gly	Leu	Val	Leu	Leu	Phe
145					150					155					160
Pro	Phe	Pro	Ile	Leu	Leu	Gln	Asn	Val	Val	Phe	Cys	Arg	Ala	Thr	Val
				165					170					175	
Ile	Ser	His	Ala	Tyr	Cys	Glu	His	Met	Ala	Val	Val	Lys	Leu	Ala	Cys
			180					185					190		
Ser	Glu	Thr	Thr	Val	Asn	Arg	Ala	Tyr	Gly	Leu	Ser	Xaa	Xaa	Xaa	Xaa
		195					200					205			

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
210						215					220				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ile	Gly	Ile	Ser
225					230					235					240
Tyr	Ala	Leu	Ile	Leu	Gln	Ala	Val	Leu	Lys	Val	Pro	Gly	Gly	Glu	Ala
			245						250					255	
Arg	Leu	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu
		260						265					270		
Ile	Phe	Tyr	Val	Pro	Gly	Met	Phe	Ser	Phe	Leu	Thr	His	Arg	Phe	Gly
	275						280					285			
His	His	Val	Pro	His	His	Val	His	Val	Leu	Leu	Ala	Thr	Leu	Tyr	Leu
	290					295					300				
Leu	Val	Pro	Pro	Ala	Leu	Asn	Pro	Leu	Val	Tyr	Gly	Val	Lys	Thr	Arg
305					310					315					320
Gln	Ile	Arg	Gln	Arg	Val	Leu	Arg	Val	Phe	Tyr	Thr	Lys	Ala	Ser	Ile
			325						330					335	

<210> 2145  
 <211> 206  
 <212> PRT  
 <213> Mus musculus

<400> 2145															
His	Ile	Phe	Thr	Ala	Met	Glu	Thr	Val	Val	Leu	Val	Ala	Met	Ala	Phe
1				5					10				15		
Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Ser	Gln	Ile	Leu
		20					25						30		
Thr	Asn	Arg	Thr	Ile	Gly	Leu	Ile	Leu	Val	Val	Val	Phe	Gly	Val	Asn
	35				40							45			
Phe	Ile	Leu	Leu	Ile	Pro	Leu	Val	Phe	Leu	Ile	Leu	Arg	Leu	Pro	Phe
	50				55						60				
Cys	Gly	His	His	Ile	Ile	Pro	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Ile
65				70					75					80	
Ala	Arg	Leu	Ala	Cys	Ala	Asn	Ile	Lys	Val	Asn	Met	Ile	Phe	Gly	Leu
		85						90					95		
Ile	Leu	Ile	Ser	Met	Val	Leu	Ala	Asp	Val	Leu	Leu	Ile	Ala	Ile	Ser
	100						105						110		
Tyr	Met	Arg	Ile	Leu	Arg	Ala	Val	Phe	Cys	Leu	Pro	Ser	Arg	Asp	Ala
	115					120						125			
Arg	Leu	Lys	Ala	Leu	Asn	Thr	Cys	Gly	Ser	His	Ile	Cys	Val	Ile	Leu
	130				135						140				
Ala	Phe	Phe	Thr	Pro	Ala	Phe	Phe	Ser	Phe	Met	Thr	His	Arg	Phe	Gly
145				150					155					160	
Arg	Asn	Val	Pro	Ala	Tyr	Ile	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val
		165						170					175		
Val	Val	Pro	Pro	Ala	Leu	Asn	Pro	Val	Ile	Tyr	Gly	Val	Arg	Thr	Lys
		180					185						190		
Gln	Ile	Arg	Asp	Gln	Val	Leu	Ser	Ile	Phe	Trp	Lys	Lys	Thr		
	195					200						205			

<210> 2146  
 <211> 287  
 <212> PRT  
 <213> Mus musculus

<400> 2146

Met	Ile	Pro	Gly	Gln	Asn	Gln	Ser	Trp	Val	Ser	Glu	Phe	Ile	Leu	Ile
1				5					10					15	
Gly	Phe	Ser	Ser	Asp	Pro	Thr	Thr	Asn	Ser	Ile	Leu	Phe	Ile	Val	Phe
			20					25					30		
Leu	Leu	Ile	Tyr	Leu	Ser	Ser	Val	Leu	Gly	Asn	Gly	Leu	Ile	Ile	Met
		35					40					45			
Leu	Val	Cys	Leu	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Thr	Leu	Ser	Leu	Leu	Asp	Met	Thr	Phe	Val	Thr	Thr	Thr	Met	Pro
65					70					75					80
Gln	Met	Leu	Val	His	Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser	Phe	Thr
				85					90					95	
Gly	Cys	Trp	Leu	Gln	Met	Phe	Met	Phe	Gly	Gly	Leu	Gly	Ile	Thr	Glu
			100					105					110		
Cys	Thr	Phe	Phe	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
	115						120					125			
Tyr	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Leu	Asn	Trp	Gly	Leu	Cys	Ile	Arg
	130					135					140				
Leu	Ala	Ala	Gly	Ser	Trp	Ile	Cys	Gly	Phe	Phe	Ser	Ser	Leu	Leu	His
145					150					155					160
Thr	Phe	Phe	Thr	Met	Ser	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Arg	Val	Asn
				165					170					175	
His	Tyr	Leu	Cys	Glu	Gly	Pro	Ser	Val	Arg	Ser	Leu	Ala	Cys	Met	Asp
		180						185					190		
Thr	His	Ile	Ile	Glu	Met	Val	Asp	Leu	Val	Leu	Ser	Val	Phe	Leu	Val
	195						200					205			
Val	Thr	Pro	Ile	Ser	Leu	Ile	Val	Ala	Ser	Tyr	Ile	Arg	Ile	Ala	Met
	210					215					220				
Ala	Ile	Leu	Lys	Ile	Lys	Ser	Thr	Glu	Gly	Arg	Cys	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Thr	Phe	Phe	Tyr	Ala	Pro	Ala
				245					250					255	
Thr	Tyr	Thr	Tyr	Leu	Arg	Pro	Asn	Ser	Ser	Tyr	Ser	Pro	Glu	Arg	Asp
		260						265					270		
Lys	Gln	Ile	Ser	Leu	Phe	Tyr	Ser	Ala	Phe	Thr	Pro	Leu	Leu	Asn	
		275					280						285		

<210> 2147

<211> 192

<212> PRT

<213> Mus musculus

<400> 2147

Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Met
1				5					10					15	
Asn	Ser	Cys	Phe	Cys	Ser	Ile	Leu	Ile	Val	Val	Ser	Leu	Ala	Ile	Ser
			20					25					30		
Ala	Val	Asn	Ala	Leu	Leu	Leu	Ser	Leu	Met	Val	Leu	His	Leu	Asn	Phe
		35					40					45			
Cys	Thr	Glu	Val	Glu	Ile	Pro	His	Phe	Phe	Cys	Glu	Leu	Ala	Gln	Ile
	50					55					60				
Ile	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Leu	Ile	Asn	Asn	Ile	Leu	Ile	Tyr
65					70					75					80
Ile	Ser	Ala	Phe	Met	Phe	Gly	Gly	Ile	Pro	Phe	Phe	Gly	Ile	Phe	Leu
				85					90					95	

Ser	Tyr	Thr	Glu	Ile	Val	Ser	Ser	Val	Leu	Lys	Ile	Pro	Ser	Arg	Gln
			100					105					110		
Gly	Arg	His	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val
		115					120					125			
Ser	Leu	Phe	Tyr	Gly	Thr	Gly	Leu	Gly	Val	Tyr	Ile	Ser	Ser	Ala	Val
	130					135					140				
Thr	Glu	Ser	Pro	Arg	Lys	Thr	Ala	Val	Ala	Ser	Val	Met	Tyr	Ser	Ile
145					150					155					160
Val	Thr	Gln	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp
			165						170					175	
Met	Lys	Glu	Ala	Leu	Arg	Lys	His	Val	Gly	Arg	Ile	Ala	Ser	Ile	Val
			180					185					190		

<210> 2148  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (71)...(117)  
 <223> Any amino acid

<400> 2148

Met	Met	Glu	Tyr	Glu	Asn	Tyr	Thr	Phe	Asn	Ser	Asp	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Leu	Phe	Ser	Ser	Ser	Lys	Thr	Ser	Leu	Thr	Phe	Phe	Ser	Phe	Ile
			20					25					30		
Phe	Phe	Ile	Phe	Ile	Met	Ala	Ile	Thr	Glu	Asn	Ala	Leu	Met	Ile	Leu
		35					40					45			
Leu	Ile	His	Arg	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu
	50					55					60				
Ser	His	Leu	Ser	Phe	Met	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
65					70				75						80
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				85				90						95	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			100					105						110	
Xaa	Xaa	Xaa	Xaa	Xaa	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
			115				120					125			
Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Arg	Asp	Asn	Ser	Ser	Arg	Leu	Leu
	130					135					140				
Ala	Ala	Gly	Ser	Trp	Leu	Val	Gly	Ile	Leu	Asn	Ser	Ile	Val	His	Thr
145					150					155					160
Val	Phe	Ala	Leu	His	Phe	Pro	Phe	Cys	His	Ser	Arg	Ala	Ile	Asp	His
				165					170					175	
Phe	Phe	Cys	Glu	Val	Pro	Ala	Met	Leu	Lys	Leu	Ser	Cys	Ile	Asp	Thr
			180					185					190		
Thr	His	Tyr	Glu	Arg	Gly	Val	Tyr	Val	Ser	Gly	Ile	Ile	Phe	Leu	Leu
		195					200					205			
Ile	Pro	Phe	Ser	Met	Ile	Ser	Ile	Ser	Tyr	Val	Gln	Ile	Leu	Leu	Thr
	210					215					220				
Val	Phe	Gln	Met	Gln	Ser	Ser	Gly	Ala	Arg	Gln	Lys	Ser	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Phe	His	Met	Val	Val	Val	Ile	Met	Tyr	Tyr	Gly	Pro	Phe	Ile
				245					250					255	

Phe	Thr	Tyr	Met	Arg	Pro	Arg	Ser	Tyr	His	Thr	Pro	Gly	Gln	Asp	Lys
			260					265					270		
Phe	Leu	Ala	Ile	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Thr	Leu	Asn	Pro	Ile
		275					280					285			
Ile	Tyr	Ser	Phe	Arg	Asn	Lys	Asp	Val	Leu	Met	Ala	Val	Lys	Asn	Ile
	290					295					300				
Val	Gln	Ser	Asn	Phe	Leu	Asn	Lys	Lys							
305					310										

<210> 2149  
 <211> 135  
 <212> PRT  
 <213> Mus musculus

<400> 2149

Met	Trp	Met	Phe	Pro	Lys	Gln	Asn	Gln	Ser	Trp	Val	Ser	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Phe	Ser	Ser	Val	Pro	Thr	Thr	Asn	Ser	Ile	Leu	Phe	Ile
			20					25					30		
Val	Phe	Leu	Leu	Val	Tyr	Leu	Ser	Val	Leu	Gly	Asn	Gly	Leu	Ile	
		35					40					45			
Ile	Met	Leu	Val	Cys	Leu	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Cys	Thr	Leu	Ser	Leu	Leu	Asp	Met	Ser	Tyr	Val	Thr	Thr	Thr
65					70					75					80
Met	Pro	Gln	Met	Leu	Val	His	Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser
				85					90					95	
Phe	Val	Gly	Cys	Trp	Leu	Gln	Met	Tyr	Met	Phe	Ser	Ala	Leu	Gly	Ile
			100					105					110		
Ala	Glu	Ser	Ile	Leu	Phe	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
		115					120						125		
Ile	Cys	Tyr	Pro	Leu	Arg	Tyr									
	130					135									

<210> 2150  
 <211> 216  
 <212> PRT  
 <213> Mus musculus

<400> 2150

Cys	Leu	Ala	Gln	Met	Phe	Phe	Ile	His	Ser	Phe	Thr	Ala	Met	Glu	Ser
1				5					10					15	
Gly	Phe	Phe	Leu	Ala	Met	Ala	Ile	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asp
			20					25					30		
Pro	Leu	Arg	His	Thr	Thr	Ile	Leu	Thr	Asn	Ser	Arg	Ile	Ala	Lys	Met
		35					40						45		
Gly	Ala	Val	Val	Val	Leu	Arg	Gly	Val	Gly	Phe	Phe	Ser	Pro	His	Pro
	50					55					60				
Ile	Leu	Leu	Lys	Gln	Leu	Pro	Tyr	Cys	Arg	Thr	Arg	Ile	Ile	Ala	His
65					70					75					80
Thr	Tyr	Cys	Glu	Phe	Ile	Ala	Val	Val	Lys	Leu	Ala	Cys	Val	Asp	Thr
				85					90					95	
Gly	Ala	Thr	Lys	Arg	Tyr	Ser	Leu	Ser	Val	Ala	Ser	Val	Ile	Gly	Ser
			100					105					110		
Cys	Asp	Gly	Phe	Phe	Ile	Ala	Leu	Ser	Tyr	Val	Leu	Ile	Leu	Arg	Ala

115	120	125
Val Phe Arg Leu Pro Ser Arg	Glu Ala Ser Leu Lys	Ala Leu Gly Thr
130	135	140
Cys Gly Ser His Val Cys Val	Ile Leu Val Phe Tyr	Ser Thr Ala Val
145	150	155
Phe Thr Phe Leu Thr His Arg	Phe Gly His Asn Val	Ala Pro Gln Ile
165	170	175
His Ile Phe Ile Ala Asn Met	Tyr Leu Leu Val Pro Pro	Phe Leu Asn
180	185	190
Pro Ile Val Tyr Gly Ile Arg	Thr Lys Lys Ile Arg	Glu Tyr Val Leu
195	200	205
Ser Phe Leu Arg Val Lys Phe	Ser	
210	215	

<210> 2151  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2151

Met Glu Asn Tyr Thr Arg Val Lys	Glu Leu Ile Phe Leu Gly Leu Thr
1	5 10 15
Gln Ser Gln Glu Val Ser Met Val	Leu Phe Leu Phe Leu Leu Val
20	25 30
Tyr Val Thr Thr Leu Leu Gly Asn	Leu Leu Ile Met Val Thr Val Thr
35	40 45
Cys Glu Ser Arg Leu His Thr Pro	Met Tyr Phe Leu Leu Arg Asn Leu
50	55 60
Ser Val Ala Asp Ile Cys Phe Ser	Ser Ile Thr Ala Pro Lys Val Leu
65	70 75 80
Val Asp Leu Leu Ser Asp Arg Lys	Thr Ile Ser Phe Asn Gly Cys Leu
85	90 95
Thr Gln Met Phe Phe Phe His Leu	Ile Gly Gly Val Asp Val Phe Ser
100	105 110
Leu Ser Val Met Ala Leu Asp Arg	Tyr Val Ala Ile Ser Lys Pro Leu
115	120 125
His Tyr Val Thr Ile Met Ser Arg	Gly Arg Cys Ile Gly Leu Ile Val
130	135 140
Ala Ser Trp Val Gly Gly Phe Ala	His Ser Ile Val Gln Ile Ser Leu
145	150 155 160
Leu Leu Thr Leu Pro Phe Cys Gly	Pro Asn Val Leu Asp Thr Phe Tyr
165	170 175
Cys Asp Val Pro Gln Val Ile Lys	Leu Ala Cys Thr Asp Ile Phe Val
180	185 190
Leu Glu Leu Leu Met Ile Ser Asn	Asn Gly Met Leu Thr Thr Leu Trp
195	200 205
Phe Phe Leu Leu Leu Val Ser Tyr	Met Val Ile Leu Leu Leu Leu Lys
210	215 220
Ser Gln Ser Gly Glu Gly Lys Lys	Lys Ala Ile Ser Thr Cys Thr Ser
225	230 235 240
His Ile Thr Val Ile Thr Leu His	Phe Val Pro Cys Ile Tyr Val Tyr
245	250 255
Ala Arg Pro Phe Thr Ala Leu Pro	Thr Asp Lys Ala Ile Ser Val Thr
260	265 270
Phe Thr Val Ile Ser Pro Leu Leu	Asn Pro Leu Ile Tyr Thr Leu Arg
275	280 285



Asn	Gln	Glu	Met	Lys	Ser	Ala	Met	Arg	Arg	Leu	Arg	Lys	Arg	Leu	Gly
290						295					300				
Pro	Ser	Tyr	Trp	Ile	Glu	Arg									
305					310										

<210> 2152  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (186)...(186)  
 <223> Any amino acid

<221> VARIANT  
 <222> (187)...(193)  
 <223> Any amino acid

<400> 2152

Met	Pro	His	Thr	Asn	Ser	Thr	Lys	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Pro	Leu	Leu	Phe	Val	Leu	Phe	Leu
			20				25						30		
Phe	Ile	Tyr	Leu	Val	Thr	Leu	Leu	Gly	Asn	Met	Gly	Leu	Met	Ala	Leu
		35				40						45			
Ile	Arg	Leu	Asp	Ser	Arg	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ala	Phe	Val	Asp	Leu	Cys	Tyr	Thr	Ser	Thr	Ala	Thr	Pro	Gln
65					70					75					80
Met	Leu	Thr	Asn	Phe	Leu	Ser	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Ile	Gly
			85						90					95	
Cys	Phe	Ile	Gln	Cys	Tyr	Leu	Phe	Ile	Ala	Leu	Leu	Leu	Thr	Glu	Phe
			100					105					110		
Tyr	Met	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115						120					125			
Pro	Leu	Arg	Tyr	Ser	Val	Lys	Met	Ser	Arg	Arg	Val	Cys	Ile	Cys	Leu
	130					135					140				
Ala	Met	Cys	Pro	Tyr	Ile	Tyr	Gly	Phe	Ser	Asp	Gly	Leu	Phe	Gln	Thr
145					150					155					160
Ile	Leu	Thr	Phe	Ser	Met	Thr	Phe	Cys	Lys	Ser	Asn	Val	Ile	Asn	His
			165						170					175	
Phe	Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Ile	Xaa	Leu	Xaa	Xaa	Xaa	Xaa	Xaa
			180					185					190		
Xaa	Leu	Ser	Asn	Ser	Leu	Thr	Ile	Val	Leu	Val	Ser	Tyr	Ala	Phe	Ile
	195						200					205			
Ile	Ala	Ala	Ile	Leu	Arg	Ile	Lys	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala
	210					215					220				
Phe	Ser	Thr	Cys	Gly	Ser	His	Met	Met	Ala	Val	Thr	Leu	Phe	Tyr	Gly
225					230					235					240
Thr	Leu	Phe	Cys	Met	Tyr	Val	Arg	Pro	Pro	Thr	Asp	Lys	Thr	Val	Glu
			245						250					255	
Glu	Ser	Lys	Ile	Ile	Ala	Val	Phe	Tyr	Thr	Phe	Val	Ser	Pro	Leu	Leu
			260					265					270		
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gln	Ala	Leu
		275					280						285		

Lys Thr Ile Leu Arg Gln Asn Val Ile Arg Thr Ala Leu Met Arg Pro  
 290 295 300  
 Pro Ser Asn Lys Leu His Gln  
 305 310

<210> 2153  
 <211> 242  
 <212> PRT  
 <213> Mus musculus

<400> 2153  
 Met Asp Gly Gly Asn Gln Ser Gly Asp Ser Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Ser Glu Val Pro Glu His Gln Arg Ile Leu Phe Trp Thr Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Val Thr Val Val Gly Asn Val Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Gly Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Asn Leu Ser Phe Thr Asp Leu Phe Phe Val Thr Asn Thr Ile Pro Lys  
 65 70 75 80  
 Met Leu Val Ser Leu Gln Ser Gln Asn Lys Ala Ile Ser Tyr Pro Gly  
 85 90 95  
 Cys Leu Thr Gln Leu Phe Phe Leu Val Ser Leu Val Ala Leu Asp Asn  
 100 105 110  
 Leu Ile Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Thr Thr Ala Met Ser Pro Lys Leu Cys Ile Leu Leu  
 130 135 140  
 Leu Ile Leu Cys Trp Ala Leu Ser Ile Leu Tyr Gly Leu Ile His Thr  
 145 150 155 160  
 Leu Leu Met Thr Arg Val Thr Phe Cys Gly Ser Arg Lys Ile His Tyr  
 165 170 175  
 Ile Phe Cys Glu Met Tyr Val Leu Leu Arg Leu Ala Cys Ser Asn Thr  
 180 185 190  
 His Ile Asn His Met Met Leu Ile Ala Thr Gly Cys Phe Val Phe Leu  
 195 200 205  
 Val Pro Phe Gly Phe Met Ile Met Ser Tyr Ile Cys Ile Val Arg Ala  
 210 215 220  
 Ile Leu Lys Ile Pro Ser Ala Ser Asn Lys Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Trp Cys

<210> 2154  
 <211> 351  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (231)...(232)  
 <223> Any amino acid  
 <221> VARIANT

<222> (234)...(278)  
<223> Any amino acid

<400> 2154

Met	Asp	Ile	Pro	Ser	Asn	Asn	Thr	Ile	Pro	Arg	Gly	Phe	Leu	Leu	Gln
1				5					10					15	
Gly	Phe	Phe	Glu	Phe	Pro	His	Leu	Lys	Pro	Leu	Leu	Phe	Leu	Val	Leu
			20					25					30		
Leu	Ala	Val	His	Leu	Ala	Thr	Leu	Ser	Gly	Asn	Leu	Leu	Ile	Leu	Val
		35					40					45			
Ala	Val	Ile	Ser	Val	Pro	Ser	Arg	Pro	Pro	Met	Leu	Leu	Phe	Leu	Cys
	50					55				60					
Gln	Leu	Ser	Ala	Ile	Glu	Leu	Cys	Tyr	Thr	Leu	Val	Val	Val	Pro	Arg
65					70				75					80	
Ser	Leu	Ala	Asp	Leu	Ser	Met	Pro	Gly	His	Gly	Arg	Gly	Ser	Pro	Ile
			85					90					95		
Ser	Phe	Leu	Gly	Cys	Ala	Val	Gln	Met	Gln	Met	Phe	Val	Ala	Leu	Gly
		100					105					110			
Gly	Ala	Glu	Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val
	115					120					125				
Ala	Ile	Cys	His	Pro	Leu	Arg	Tyr	Ala	Ser	Ile	Val	Thr	Pro	Gly	Leu
	130				135					140					
Cys	Ala	Arg	Leu	Ala	Leu	Ala	Cys	Cys	Leu	Gly	Gly	Leu	Ala	Val	Ser
145					150				155					160	
Val	Gly	Leu	Thr	Val	Ala	Val	Phe	His	Leu	Pro	Phe	Cys	Gly	Ser	Arg
			165					170					175		
Leu	Leu	Val	His	Phe	Phe	Cys	Asp	Ile	Thr	Ala	Leu	Leu	His	Leu	Ala
		180					185					190			
Cys	Thr	Arg	Ser	Tyr	Val	Asp	Glu	Leu	Pro	Leu	Leu	Gly	Ala	Cys	Leu
	195					200					205				
Val	Leu	Leu	Leu	Leu	Pro	Ser	Met	Leu	Ile	Leu	Thr	Ser	Tyr	Gly	Ala
	210				215						220				
Ile	Ala	Ser	Ala	Leu	Arg	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
225					230				235					240	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			245					250					255		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		260					265					270			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Ala	Ser	His	Leu	Ala	Val	Thr	Phe	Leu
	275				280						285				
His	Tyr	Gly	Cys	Ala	Thr	Phe	Met	Tyr	Val	Arg	Pro	Lys	Ser	Ser	Tyr
	290				295					300					
Ser	Pro	Arg	Leu	Asp	Arg	Thr	Leu	Ala	Leu	Val	Tyr	Thr	Asn	Val	Thr
305					310				315					320	
Pro	Leu	Leu	Tyr	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Glu	Ile	Thr
			325					330					335		
Ser	Ala	Ile	His	Arg	Val	Leu	Gly	Phe	Arg	Gly	Ser	Gly	Ser	Val	
		340					345					350			

<210> 2155

<211> 304

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (199)...(222)  
<223> Any amino acid

<400> 2155

Met	Arg	Asn	His	Thr	Val	Ile	Thr	Glu	Phe	Val	Leu	Leu	Gly	Ile	Ser
1				5					10					15	
Asp	Thr	Pro	Glu	Leu	Gln	Leu	Val	Leu	Phe	Ile	Phe	Leu	Leu	Ile	Thr
			20					25					30		
Tyr	Ile	Leu	Ser	Val	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Ile	Leu	Thr	Leu
		35					40					45			
Leu	Asp	Ser	Arg	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Thr	Phe	Thr	Ser	Val	Ser	Ile	Pro	Arg	Phe	Leu
65					70				75						80
Gly	Ser	Ile	Ile	Thr	Lys	Val	Lys	Thr	Ile	Ser	Tyr	Asn	Asn	Cys	Leu
				85					90					95	
Ala	Gln	Leu	Tyr	Phe	Phe	Ile	Ser	Met	Gly	Val	Ser	Glu	Phe	Phe	Leu
		100						105					110		
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
	115						120					125			
His	Tyr	Thr	Leu	Ile	Met	Asn	Gln	Lys	Val	Cys	Thr	Leu	Leu	Val	Leu
	130					135					140				
Ala	Ser	Trp	Leu	Ala	Gly	Phe	Leu	Thr	Ile	Phe	Pro	Pro	Leu	Met	Leu
145					150					155					160
Val	Leu	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Asn	Val	Ile	Asp	His	Phe	Ser
				165					170					175	
Cys	Asp	Tyr	Phe	Pro	Ile	Leu	Gln	Leu	Ser	Cys	Ser	Asp	Pro	Arg	Ser
		180						185					190		
Leu	Glu	Met	Met	Ala	Phe	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	195						200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Gln	Arg
	210						215					220			
Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Met	Ile	Val	Ile	Ser	Met
225					230					235					240
Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Ile	Tyr	Val	Lys	Ser	Ser	Ala	Asn	Glu
			245						250					255	
Arg	Ala	Ser	Leu	Thr	Lys	Ala	Val	Ala	Val	Leu	Asn	Thr	Ser	Ile	Ala
		260						265					270		
Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys
	275						280					285			
Gln	Ala	Phe	Lys	Asp	Leu	Ile	Tyr	Lys	Val	Leu	Leu	Tyr	Arg	Ser	Lys
	290					295					300				

<210> 2156  
<211> 329  
<212> PRT  
<213> Mus musculus

<220>  
<221> VARIANT  
<222> (209)...(215)  
<223> Any amino acid

<400> 2156

Met	Ala	Lys	Asn	Asn	Ile	Thr	Thr	Val	Thr	Glu	Phe	Ile	Leu	Ile	Gly
1				5					10					15	

Phe	Asn	Asp	His	Pro	Lys	Trp	Glu	Ile	Pro	Leu	Phe	Leu	Val	Phe	Leu
			20					25					30		
Ser	Phe	Tyr	Leu	Val	Thr	Met	Leu	Gly	Asn	Leu	Gly	Met	Val	Ile	Leu
		35					40					45			
Ile	His	Val	Asp	Val	Gln	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ser	Val	Leu	Asp	Ala	Cys	Tyr	Thr	Ser	Val	Ile	Thr	Pro	Gln
65					70					75					80
Ile	Leu	Ala	Thr	Leu	Ala	Thr	Gly	Lys	Thr	Val	Ile	Ser	Tyr	Arg	Cys
				85					90					95	
Cys	Ala	Ala	Gln	Phe	Phe	Phe	Phe	Thr	Ile	Cys	Ala	Ala	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Gly	Pro	Arg	Lys	Cys	Trp	Ser	Leu
	130					135					140				
Val	Val	Gly	Ala	Tyr	Val	Cys	Gly	Met	Cys	Gly	Ala	Ile	Leu	Arg	Thr
145					150					155					160
Thr	Cys	Thr	Phe	Ser	Leu	Ser	Phe	Cys	Glu	Asn	Asn	Gln	Ile	Asn	Phe
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr
		180						185					190		
Thr	Asn	Ile	Glu	Ile	Ile	Ile	Val	Phe	Phe	Gly	Gly	Ile	Leu	Phe	Arg
		195					200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Gly	Asn	Phe	Val	Ile	Ser	Ala	Asn	Ala
	210					215					220				
Leu	Val	Ile	Leu	Ile	Ser	Tyr	Leu	Leu	Ile	Ile	Lys	Ala	Val	Met	Arg
225					230					235					240
Met	Lys	Ser	Ser	Gly	Arg	Arg	Ala	Lys	Thr	Phe	Ser	Thr	Cys	Val	Ser
				245					250					255	
His	Leu	Thr	Ala	Val	Ala	Leu	Leu	Phe	Gly	Thr	Leu	Ile	Phe	Met	Tyr
			260					265					270		
Ile	Arg	Ser	Gly	Ser	Lys	Lys	Ser	Leu	Glu	Glu	Asp	Lys	Val	Val	Ser
		275					280					285			
Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Val	Tyr	Ser
	290					295					300				
Leu	Arg	Asn	Lys	Asp	Val	Lys	Ala	Ala	Phe	Lys	Lys	Val	Thr	Gly	Lys
305					310					315					320
Trp	Gln	Val	Ser	His	Ser	Ile	Gln	Tyr							
				325											

<210> 2157

<211> 302

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (95)...(104)

<223> Any amino acid

<400> 2157

Met	Lys	Asn	Arg	Thr	Ser	Val	Ser	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asn	Asp	Pro	Lys	Leu	Asn	Ile	Leu	Ile	Phe	Val	Phe	Leu	Phe	Ile	Thr
			20					25					30		

Tyr	Ile	Leu	Ser	Ile	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu
		35					40					45			
Ile	Asp	Ser	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Ser	Phe	Thr	Thr	Val	Ser	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Val	Ser	Ile	Val	Thr	Gly	Asp	Met	Thr	Ile	Ser	Tyr	Ser	Ser	Xaa	Xaa
				85					90					95	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr
			100					105					110		
Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	Ser	Ser	Arg
		115					120					125			
Val	Cys	Met	Gln	Leu	Ile	Val	Ser	Ser	Trp	Leu	Ala	Gly	Phe	Leu	Ile
	130					135					140				
Ile	Phe	Pro	Pro	Val	Ile	Met	Gly	Leu	Gln	Leu	Asp	Phe	Cys	Asp	Ser
145					150					155					160
Asn	Ile	Ile	Asp	His	Phe	Thr	Cys	Asp	Ser	Ser	Pro	Leu	Leu	Leu	Ile
			165					170						175	
Ser	Cys	Thr	Asp	Thr	Ala	Phe	Leu	Glu	Leu	Phe	Ala	Phe	Phe	Leu	Ala
			180					185					190		
Val	Leu	Thr	Leu	Ile	Val	Thr	Leu	Thr	Leu	Val	Ile	Leu	Ser	Tyr	Ser
	195						200					205			
Phe	Ile	Leu	Arg	Thr	Ile	Leu	Arg	Ile	Pro	Ser	Ala	Glu	Gln	Arg	Lys
	210					215					220				
Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Met	Ile	Val	Val	Ser	Ile	Ser
225					230					235					240
Tyr	Gly	Ser	Cys	Ile	Phe	Met	Tyr	Val	Lys	Thr	Ser	Ala	Lys	Glu	Gly
			245					250						255	
Val	Thr	Leu	Thr	Lys	Gly	Ile	Ala	Val	Leu	Asn	Thr	Ser	Val	Ala	Pro
			260					265					270		
Met	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Gln	Val	Lys	Glu
		275					280					285			
Ala	Phe	Lys	Thr	Leu	Ile	Lys	Lys	Arg	Phe	Ser	Asn	Lys	Ile		
	290					295					300				

<210> 2158

<211> 241

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (116)...(122)

<223> Any amino acid

<400> 2158

Met	Thr	Ile	His	Asn	Asn	Arg	Ser	Val	Ser	His	Pro	Asp	Thr	Phe	Phe
1				5					10					15	
Leu	Ile	Gly	Ile	Pro	Gly	Leu	Glu	Glu	Ile	His	Ala	Trp	Ile	Ser	Leu
		20					25						30		
Pro	Phe	Cys	Cys	Ile	Tyr	Leu	Val	Ala	Leu	Met	Val	Asn	Thr	Met	Ile
		35				40					45				
Leu	Val	Val	Ile	Lys	Thr	Glu	Arg	Ser	Leu	Arg	Glu	Pro	Met	Phe	Tyr
	50					55					60				
Phe	Leu	Ala	Ile	Leu	Ser	Ser	Val	Asp	Leu	Ala	Leu	Ser	Thr	Thr	Ser
65					70					75					80

Val	Pro	Arg	Met	Leu	Gly	Ile	Phe	Trp	Phe	Asp	Ala	His	Glu	Ile	Asn
				85					90					95	
Phe	Gly	Gly	Cys	Val	Ala	Gln	Met	Phe	Leu	Ile	His	Ala	Phe	Thr	Gly
			100					105					110		
Met	Glu	Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Asn	Ile	His	Ile	Asn	Ala	
			115					120				125			
Val	Tyr	Gly	Leu	Phe	Val	Val	Ser	Leu	Phe	Leu	Leu	Asn	Leu	Val	Leu
	130					135					140				
Ile	Gly	Ile	Ser	Tyr	Gly	Tyr	Ile	Leu	Arg	Ala	Val	Phe	Arg	Leu	Pro
145					150					155					160
Ser	Gln	Asp	Ala	Arg	Leu	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Val
				165					170					175	
Ala	Val	Leu	Cys	Val	Phe	Tyr	Ile	Pro	Ser	Val	Phe	Ser	Phe	Leu	Thr
			180					185					190		
His	Arg	Phe	Gly	His	Asn	Ile	Pro	His	Tyr	Ile	His	Ile	Leu	Val	Ala
			195				200					205			
Asn	Leu	Tyr	Leu	Val	Ile	Pro	Pro	Ser	Leu	Asn	Pro	Ile	Ile	Tyr	Ser
	210					215					220				
Val	Arg	Thr	Lys	Gln	Ile	Arg	Glu	His	Val	Leu	His	Ile	Phe	Thr	Lys
225					230					235					240
Arg															

<210> 2159  
 <211> 240  
 <212> PRT  
 <213> Mus musculus

<400> 2159

Leu	Ser	Phe	Ser	Ser	Leu	Pro	Thr	Met	Leu	Lys	Ile	Phe	Phe	Phe	Asn
1				5					10					15	
Ala	Met	Ala	Ile	Ser	Pro	Asn	Ala	Cys	Phe	Ala	Gln	Glu	Phe	Phe	Ile
			20					25					30		
His	Gly	Phe	Thr	Val	Met	Glu	Ser	Ser	Val	Leu	Leu	Ile	Met	Ser	Leu
	35					40						45			
Asp	Arg	Phe	Leu	Ala	Ile	His	Asn	Pro	Leu	Arg	Tyr	Ser	Ser	Ile	Leu
	50					55					60				
Asn	Gly	Arg	Arg	Val	Ala	Lys	Ile	Gly	Leu	Ile	Leu	Ala	Phe	Arg	Ser
65					70					75					80
Thr	Val	Leu	Val	Leu	Pro	Phe	Pro	Phe	Thr	Leu	Arg	Lys	Leu	Lys	Tyr
				85					90					95	
Cys	His	Lys	Asn	Leu	Leu	Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Val
			100					105					110		
Met	Lys	Leu	Ala	Cys	Ser	Asp	Asn	Lys	Ile	Asn	Phe	Ile	Tyr	Gly	Phe
		115					120					125			
Phe	Val	Ala	Leu	Cys	Thr	Met	Leu	Asp	Phe	Ala	Leu	Ile	Leu	Met	Ser
	130					135					140				
Tyr	Val	Leu	Ile	Leu	Lys	Thr	Val	Leu	Ser	Ile	Ala	Ser	Leu	Ala	Glu
145					150					155					160
Arg	Leu	Lys	Ala	Leu	Asn	Thr	Cys	Val	Ser	His	Ile	Cys	Ala	Val	Leu
				165					170					175	
Ile	Phe	Tyr	Val	Pro	Ile	Ile	Thr	Leu	Ala	Ala	Ile	His	Arg	Phe	Ala
			180					185					190		
Lys	His	Lys	Ser	Pro	Leu	Leu	Val	Ile	Leu	Ile	Ala	Asp	Met	Phe	Leu
		195					200					205			
Leu	Val	Pro	Pro	Leu	Met	Asn	Pro	Ile	Val	Tyr	Cys	Ile	Lys	Thr	Arg

210		215		220
Gln Ile Arg Glu Lys Val	Leu Gly Lys Leu Val	Asn Leu Cys Val Arg		
225	230	235	240	

<210> 2160  
 <211> 281  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (146)...(248)  
 <223> Any amino acid

<400> 2160

Met	Glu	Asn	Arg	Thr	Val	Pro	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Ser
1				5				10					15		
Asp	Asp	Pro	Gly	Leu	Gln	Ile	Val	Ile	Phe	Leu	Phe	Leu	Ile	Leu	Met
		20						25					30		
Tyr	Ile	Leu	Ser	Ile	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu
	35					40						45			
Val	Asp	Pro	His	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Val	Leu	Glu	Ile	Thr	Phe	Thr	Thr	Val	Cys	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Ser	Thr	Ile	Val	Thr	Arg	Asp	Lys	Thr	Ile	Ser	Tyr	Asn	Ser	Cys	Thr
			85						90					95	
Ala	Gln	Leu	Phe	Phe	Phe	Ile	Phe	Leu	Gly	Ile	Thr	Glu	Phe	Tyr	Leu
			100					105					110		
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Thr	Thr	Ile	Met	Asn	Arg	Arg	Val	Cys	Ile	Leu	Arg	Ser	Phe
	130					135					140				
Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
145					150					155					160
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			165						170					175	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			180					185					190		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			195				200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			210				215					220			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
225					230					235					240
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ala	Pro	Met	Met	Asn	Pro	Phe	Ile
					245				250					255	
Tyr	Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Gln	Ala	Phe	Lys	Asp	Ala	Ile
			260					265					270		
Gln	Lys	Val	Val	Leu	Phe	Ser	Gly	Lys							
		275					280								

<210> 2161  
 <211> 140  
 <212> PRT



<213> Mus musculus

<400> 2161

Met	Ser	Leu	Tyr	Asn	Ile	Thr	Glu	Val	His	Pro	Ser	Ser	Phe	Leu	Leu
1				5					10					15	
Leu	Gly	Ile	Pro	Gly	Leu	Glu	Tyr	Ala	His	Ile	Trp	Ile	Gly	Phe	Pro
			20					25					30		
Phe	Cys	Phe	Leu	Tyr	Leu	Ile	Ala	Ile	Leu	Gly	Asn	Ala	Ala	Val	Leu
		35					40					45			
Phe	Val	Ile	Gln	Thr	Glu	His	Ser	Leu	His	Glu	Pro	Met	Tyr	Tyr	Phe
	50					55					60				
Leu	Ala	Met	Leu	Asp	Ser	Ile	Asp	Leu	Gly	Leu	Thr	Thr	Ala	Thr	Ile
65					70					75					80
Pro	Lys	Met	Leu	Gly	Ile	Phe	Trp	Phe	Asn	Leu	Arg	Glu	Ile	Ser	Phe
				85					90					95	
Gly	Gly	Cys	Leu	Ser	Gln	Met	Phe	Phe	Ile	His	Phe	Phe	Thr	Val	Met
			100					105					110		
Glu	Ser	Ile	Met	Leu	Leu	Ala	Met	Gly	Phe	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Lys	Pro	Leu	Gln	Tyr	Thr	Val	Ile	Leu	Thr	Asn				
	130						135				140				

<210> 2162

<211> 305

<212> PRT

<213> Mus musculus

<400> 2162

Met	Gly	Glu	Asp	Asn	Arg	Thr	Ser	Val	Thr	Glu	Phe	Ile	Phe	Leu	Gly
1				5					10					15	
Leu	Ser	Gln	Asp	Pro	Gln	Thr	Gln	Val	Leu	Leu	Phe	Phe	Leu	Phe	Leu
			20					25					30		
Phe	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Val	Leu
		35					40					45			
Ile	His	Ser	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Arg	Asn	Leu
	50					55					60				
Ser	Phe	Ala	Asp	Leu	Cys	Phe	Ser	Thr	Thr	Thr	Val	Pro	Gln	Val	Leu
65					70					75					80
Val	His	Phe	Leu	Val	Lys	Arg	Lys	Thr	Ile	Ser	Phe	Ala	Gly	Cys	Ser
				85					90					95	
Ile	Gln	Leu	Val	Val	Leu	Leu	Leu	Val	Gly	Cys	Thr	Asp	Cys	Ala	Leu
			100					105					110		
Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Ser	Thr	Ile	Met	Thr	His	Trp	Val	Cys	Val	Gln	Leu	Ala	Ala
	130					135					140				
Gly	Ser	Trp	Ala	Ser	Gly	Ala	Phe	Val	Ser	Leu	Val	Asp	Ala	Thr	Phe
145					150					155					160
Thr	Leu	Arg	Leu	Pro	Tyr	Arg	Gly	Asn	Asn	Val	Ile	Asn	His	Phe	Phe
				165					170					175	
Cys	Glu	Pro	Pro	Ala	Leu	Leu	Lys	Leu	Ala	Ser	Ala	Asp	Thr	Tyr	Ser
			180					185					190		
Thr	Glu	Met	Ala	Ile	Phe	Ala	Met	Gly	Val	Val	Ile	Leu	Leu	Ala	Pro
		195					200						205		
Val	Ser	Leu	Ile	Leu	Ile	Ser	Tyr	Trp	Asn	Ile	Ile	Cys	Thr	Val	Ile
	210						215					220			

Gln	Met	Gln	Ser	Gly	Glu	Gly	Arg	Leu	Lys	Val	Phe	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Leu	Ile	Val	Val	Gly	Leu	Phe	Tyr	Gly	Ser	Ala	Ile	Phe	Ala
				245					250						255
Tyr	Met	Arg	Pro	Asn	Ser	Lys	Ile	Met	Asn	Glu	Arg	Asp	Lys	Met	Ile
			260					265					270		
Ser	Val	Phe	Tyr	Ser	Ala	Val	Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr
		275					280					285			
Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Arg	Arg	Ile	Thr	Ser
	290					295					300				
Arg															
305															

<210> 2163  
 <211> 355  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (101)...(161)  
 <223> Any amino acid

Met	Gly	Glu	Asp	Asn	Arg	Thr	Ser	Val	Thr	Glu	Phe	Ile	Phe	Leu	Gly
1				5					10					15	
Leu	Ser	Gln	Asp	Pro	Gln	Thr	Gln	Val	Leu	Leu	Phe	Phe	Leu	Phe	Leu
			20					25					30		
Phe	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Val	Leu
		35					40					45			
Ile	His	Ser	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
Asn	Leu	Ser	Phe	Ala	Asp	Leu	Cys	Phe	Ser	Thr	Thr	Thr	Val	Pro	Gln
65					70					75					80
Val	Leu	Val	His	Phe	Leu	Val	Lys	Arg	Lys	Thr	Ile	Ser	Phe	Ala	Gly
			85						90					95	
Cys	Ser	Thr	Gln	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			100					105					110		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		115					120					125			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			130				135					140			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
					150					155					160
Xaa	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Lys
				165					170					175	
Pro	Leu	His	Tyr	Ser	Thr	Ile	Met	Thr	His	Trp	Val	Cys	Val	Gln	Leu
			180					185					190		
Ala	Ala	Gly	Ser	Trp	Ala	Ser	Gly	Ala	Leu	Val	Ser	Leu	Val	Asp	Thr
		195					200					205			
Thr	Phe	Thr	Leu	Arg	Leu	Pro	Tyr	Arg	Gly	Asn	Asn	Val	Ile	Asn	His
	210					215					220				
Phe	Phe	Cys	Glu	Pro	Pro	Ala	Leu	Leu	Lys	Leu	Ala	Ser	Ala	Asp	Thr
225					230					235					240
Tyr	Ser	Thr	Glu	Met	Ala	Ile	Phe	Ala	Met	Gly	Val	Val	Ile	Leu	Leu
				245					250					255	

Ala	Pro	Val	Ser	Leu	Ile	Leu	Thr	Ser	Tyr	Trp	Asn	Ile	Ile	Ser	Thr
			260					265				270			
Val	Ile	Gln	Met	Gln	Ser	Gly	Glu	Gly	Arg	Leu	Lys	Val	Phe	Ser	Thr
		275				280					285				
Cys	Gly	Ser	His	Leu	Ile	Val	Val	Val	Leu	Phe	Tyr	Gly	Ser	Ala	Ile
	290				295					300					
Phe	Ala	Tyr	Met	Arg	Pro	Asn	Ser	Lys	Ile	Met	Asn	Glu	Lys	Asp	Lys
305					310					315					320
Met	Ile	Ser	Val	Phe	Tyr	Ser	Ala	Val	Thr	Pro	Met	Leu	Asn	Pro	Ile
			325						330					335	
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gly	Ala	Leu	Arg	Arg	Ile
			340					345					350		
Thr	Leu	Lys													
		355													

<210> 2164  
 <211> 193  
 <212> PRT  
 <213> Mus musculus

<400> 2164

Asp	His	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr	Ala	Thr	Val	Leu
1				5					10					15	
Thr	Asn	Ala	Arg	Ile	Val	Ala	Met	Gly	Leu	Gly	Thr	Val	Leu	Arg	Ser
			20					25					30		
Phe	Val	Leu	Ile	Val	Val	Phe	Pro	Val	Leu	Leu	His	Arg	Leu	Pro	Phe
		35				40					45				
Cys	His	Pro	Gln	Asn	Ile	Leu	Ser	His	Ala	Tyr	Cys	Leu	His	Val	Asp
	50				55					60					
Met	Ile	Lys	Leu	Ala	Cys	Thr	Asp	Val	Ser	Leu	Asn	Ser	His	Tyr	Gly
65					70					75					80
Leu	Ser	Ile	Val	Leu	Leu	Thr	Phe	Gly	Leu	Asp	Ser	Ala	Leu	Ile	Leu
			85					90						95	
Ile	Ser	Tyr	Val	Leu	Ile	Leu	Arg	Ser	Val	Leu	Ala	Ile	Ala	Ser	Arg
			100					105					110		
Glu	Glu	Arg	Leu	Lys	Thr	Leu	Asn	Thr	Cys	Val	Ser	His	Ile	Leu	Ala
		115					120					125			
Val	Leu	Ile	Phe	Tyr	Val	Pro	Met	Val	Ser	Val	Ser	Ile	Val	His	Arg
	130					135					140				
Phe	Gly	Ala	Gly	Leu	Pro	His	Ala	Val	His	Ile	Leu	Met	Ser	Ile	Leu
145					150					155					160
Tyr	Leu	Phe	Val	Pro	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Ile	Lys
			165						170					175	
Thr	Lys	Glu	Ile	Arg	Arg	Arg	Leu	Leu	Lys	Met	Leu	Phe	Arg	Val	Lys
			180					185					190		

Leu

<210> 2165  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2165

Leu	Leu	Val	Ser	Leu	Glu	Gln	Arg	Ile	Met	Lys	Phe	Leu	Thr	Gly	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5					10					15			
Pro	Gly	Leu	Glu	Thr	Gln	His	Gly	Trp	Leu	Ser	Ile	Pro	Ile	Phe	Ile		
			20					25					30				
Met	Tyr	Met	Val	Ala	Ile	Val	Gly	His	Ser	Leu	Ile	Met	Ala	Ala	Val		
		35					40					45					
Gln	Gln	Val	Ser	Val	Phe	His	Glu	Pro	Met	Tyr	Leu	Phe	Phe	Tyr	Met		
	50					55					60						
Leu	Ala	Ile	Asn	Glu	Val	Gly	Val	Ser	Glu	Ser	Thr	Met	Pro	Thr	Val		
65					70					75					80		
Arg	Ser	Ser	Leu	Trp	Phe	Asp	Ala	Asn	Arg	Ile	Asp	Leu	Asp	Gly	Cys		
			85					90					95				
Leu	Ala	Gln	Met	Leu	Phe	Ile	His	Thr	Phe	Ser	Gly	Met	Gly	Ser	Gly		
		100						105					110				
Val	Leu	Leu	Thr	Met	Ser	Tyr	Glu	Asp	Phe	Val	Thr	Ile	Tyr	Asn	Pro		
		115					120					125					
Leu	Arg	His	Thr	Ala	Phe	Leu	Thr	Leu	Pro	Arg	Ile	Ile	Ser	Met	Gly		
	130					135				140							
Leu	Gly	Ile	Thr	Leu	Lys	Ser	Val	Thr	Leu	Met	Ala	Pro	Leu	Gln	Ile		
145					150					155					160		
Leu	Leu	Lys	Gln	Arg	Pro	Tyr	Cys	His	Ile	Asn	Ile	Leu	Ser	His	Ser		
			165					170						175			
Tyr	Gly	Leu	His	Ala	Asp	Leu	Ile	Gln	Leu	Pro	Cys	Ala	Asp	Thr	Arg		
		180						185					190				
Leu	Asn	Ser	Ile	Leu	Arg	Leu	Thr	Ile	Val	Leu	Ala	Thr	Phe	Gly	Leu		
	195					200						205					
Asp	Ser	Leu	Phe	Ile	Val	Val	Ser	Tyr	Gly	Leu	Ile	Leu	Tyr	Thr	Val		
	210					215					220						
Met	Gly	Ile	Ala	Ser	Gly	Glu	Gly	Arg	Lys	Lys	Ala	Leu	Asn	Thr	Cys		
225					230					235				240			
Val	Ser	His	Ile	Cys	Ala	Val	Leu	Ile	Tyr	Tyr	Val	Pro	Met	Ile	Gly		
			245						250					255			
Val	Ser	Met	Met	His	Arg	Val	Ala	Lys	His	Ala	Ser	Pro	Val	Val	His		
		260						265					270				
Thr	Leu	Met	Leu	Ser	Ile	Tyr	Leu	Phe	Val	Pro	Pro	Val	Leu	Asn	Pro		
	275						280						285				
Ile	Ile	Tyr	Ser	Val	Lys	Thr	Arg	Pro	Ile	Gln	Gln	Gly	Ile	Ala	Asn		
	290					295					300						
Leu	Phe	Ser	Cys	Lys	Lys	Gly	Ser	Ile									
305					310												

<210> 2166  
 <211> 193  
 <212> PRT  
 <213> Mus musculus

<400> 2166

Arg	Tyr	Val	Ala	Ile	Cys	Asp	Pro	Leu	Arg	His	Ala	Ser	Ile	Phe	Thr		
1				5				10					15				
Gln	Arg	Leu	Leu	Thr	Gln	Ile	Gly	Val	Gly	Val	Thr	Leu	Arg	Ala	Ala		
		20					25					30					
Leu	Phe	Val	Ala	Pro	Cys	Leu	Phe	Leu	Ile	Lys	Cys	Arg	Leu	Lys	Phe		
	35					40					45						
Tyr	Trp	Thr	Thr	Val	Val	Ser	His	Ser	Tyr	Cys	Glu	His	Met	Ala	Ile		
	50					55					60						
Val	Lys	Leu	Ala	Ala	Glu	Asp	Val	His	Val	Asn	Lys	Ile	Tyr	Gly	Leu		
65					70					75					80		

Phe	Val	Ala	Phe	Ser	Ile	Leu	Gly	Leu	Asp	Ile	Ile	Phe	Ile	Thr	Leu
				85					90					95	
Ser	Tyr	Ile	Arg	Ile	Phe	Ile	Thr	Val	Phe	Lys	Leu	Pro	Gln	Lys	Glu
			100					105					110		
Ala	Arg	Leu	Lys	Ala	Phe	Asn	Thr	Cys	Ile	Ala	His	Ile	Cys	Val	Phe
			115				120					125			
Leu	Glu	Phe	Tyr	Leu	Leu	Ala	Phe	Phe	Ser	Phe	Phe	Thr	His	Arg	Phe
	130					135					140				
Gly	Tyr	His	Val	Pro	Ser	Tyr	Ile	His	Ile	Leu	Leu	Ser	Asn	Leu	Tyr
145					150					155					160
Leu	Leu	Val	Pro	Pro	Leu	Leu	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr
			165					170						175	
Lys	Gln	Ile	Arg	Asp	Gln	Val	Ser	Lys	Ile	Leu	Tyr	Cys	Asn	Tyr	Ser
			180					185					190		

Tyr

<210> 2167  
 <211> 218  
 <212> PRT  
 <213> Mus musculus

<400> 2167

Pro	Ile	Thr	Lys	Val	Ile	Tyr	Ala	Ser	Asn	Leu	Pro	Phe	Val	Leu	Ser
1				5					10					15	
Asn	Phe	Leu	Leu	Gly	Ala	Asn	Lys	Ile	Cys	Phe	Glu	Thr	Cys	Leu	Leu
			20					25					30		
Lys	Met	Phe	Ser	Ile	His	Ser	Phe	Ser	Ile	Met	Glu	Ser	Gly	Val	Leu
	35					40					45				
Leu	Ala	Met	Ser	Val	Asp	Arg	Phe	Val	Ala	Ile	Tyr	Lys	Pro	Leu	Arg
	50				55					60					
Tyr	Pro	Val	Lys	Leu	Thr	Leu	Pro	Arg	Ile	Ala	Gly	Thr	Arg	Val	Thr
65					70				75						80
Leu	Gly	Leu	Lys	Ser	Leu	Leu	Leu	Met	Phe	Leu	Leu	Pro	Phe	Leu	Leu
			85					90					95		
Lys	Arg	Leu	Pro	Phe	Cys	Gly	His	Asn	Val	Leu	Ser	His	Ser	Tyr	Cys
		100						105					110		
Leu	His	Ser	Asp	Leu	Ile	Gln	Leu	Pro	Cys	Gly	Asp	Thr	Arg	Pro	Asn
		115				120						125			
Ser	Ile	Leu	Gly	Leu	Arg	Ile	Val	Thr	Ser	Thr	Phe	Gly	Leu	Asp	Ser
	130					135					140				
Leu	Leu	Ile	Val	Val	Pro	Tyr	Val	Leu	Ile	Leu	Ser	Met	Val	Ser	Leu
145					150					155					160
Phe	Arg	Leu	Val	Leu	Val	Val	Asp	Arg	Arg	Gly	Glu	Lys	Glu	His	Ala
			165					170						175	
Phe	Met	Asn	Glu	Leu	Lys	Ile	Ser	Leu	Glu	Lys	Tyr	Leu	Pro	Ile	Leu
		180					185						190		
Pro	Val	Gln	Val	Ala	Ser	Val	Val	Leu	Tyr	Trp	Pro	Arg	Gln	His	Ser
		195				200						205			
Ala	Arg	Lys	Val	Val	Ser	Asn	Leu	Met	Thr						
		210				215									

<210> 2168  
 <211> 305  
 <212> PRT

<213> Mus musculus

<400> 2168

```
Met Pro Ile Phe Tyr Asn Ser Thr Ser Pro Thr Phe Leu Leu Thr Gly
 1      5      10      15
Val Pro Gly Leu Glu Trp Ala His Pro Trp Ile Ser Ile Pro Phe Cys
 20      25      30
Cys Leu Tyr Phe Thr Ala Leu Ser Gly Asn Ser Leu Ile Leu Phe Leu
 35      40      45
Val Leu Thr Glu Pro Thr Leu Gln Glu Pro Met Tyr Tyr Phe Leu Ser
 50      55      60
Met Leu Ser Ser Thr Asp Ile Gly Leu Cys Ile Ser Thr Ile Val Thr
 65      70      75      80
Val Leu Gly Ile Phe Trp Leu Asn Ala Arg Glu Ile Ser Phe Ser Ala
 85      90      95
Cys Leu Ser Gln Met Phe Phe Ile His Leu Phe Thr Phe Met Glu Ser
100      105      110
Ser Val Leu Leu Ala Met Ala Phe Asp Arg Phe Val Ala Ile Ser Asn
115      120      125
Pro Arg Tyr Ala Ala Ile Leu Thr His Ala Arg Ile Ala Gln Ile Gly
130      135      140
Leu Ala Ile Ile Thr Lys Ala Thr Val Ile Leu Thr Pro Pro Val Leu
145      150      155      160
Leu Leu Lys Arg Leu Ser Phe Cys Arg Ser Arg Val Leu His His Ser
165      170      175
Tyr Cys Phe His Pro Asp Val Met Lys Leu Ser Cys Ser Asp Thr Lys
180      185      190
Ile Asn Ser Ala Phe Gly Leu Thr Ala Ile Ile Ser Thr Ala Gly Val
195      200      205
Asp Ser Ile Phe Ile Leu Leu Ser Tyr Ala Leu Ile Ile Arg Ser Val
210      215      220
Leu Ser Ile Ala Ser Pro Arg Glu Arg Lys Lys Ala Phe Ser Thr Cys
225      230      235      240
Ile Ser His Val Thr Ala Val Ala Ile Phe Tyr Ile Pro Leu Ile Ser
245      250      255
Leu Ser Phe Val His Arg Phe Gly Lys His Ala Leu Pro Tyr Val Pro
260      265      270
Thr Leu Ile Ala Asn Val Tyr Leu Leu Ile Pro Pro Val Met Asn Pro
275      280      285
Ile Ile Tyr Ser Val Lys Gln Ser Ser Arg Glu Leu Phe Ser Asp Ser
290      295      300
Tyr
305
```

<210> 2169

<211> 233

<212> PRT

<213> Mus musculus

<400> 2169

```
Thr Ile Pro Lys Met Leu Gly Ile Phe Trp Phe Ser Phe Arg Val Ile
 1      5      10      15
Leu Phe Gly Ala Cys Leu Thr Gln Met Phe Phe Ile His Asn Phe Thr
 20      25      30
Gly Met Glu Ser Ala Val Leu Leu Ala Met Ala Tyr Asp Arg Tyr Val
 35      40      45
```



<210> 2171  
 <211> 271  
 <212> PRT  
 <213> Mus musculus

<400> 2171  
 Leu Ser Ile Asn Tyr Phe Phe Trp Pro Gln Ala Ser Leu Phe Ile Phe  
 1 5 10 15  
 Ile Phe Ile Phe Ile Phe Ile Asn Asn Arg Glu Glu Met Ser Pro Leu  
 20 25 30  
 Pro Gln Pro Lys Thr Cys Leu Leu Arg Gly Gly Ala Ser Cys Ser Ile  
 35 40 45  
 Ile Leu Pro Cys Leu Leu Leu Glu Pro Ala Ala Leu Arg Phe Arg Ser  
 50 55 60  
 His His Val Ile Thr Leu Leu Leu Asp Ser Lys Ile Ile Trp Gln Asn  
 65 70 75 80  
 Trp Ala Pro Pro Pro Ser Phe Ile Thr Glu Cys Arg Asn Ser Lys Asn  
 85 90 95  
 Thr Leu Ser Arg Glu Leu Cys Leu Gly Ser Phe Leu Ile Ser Arg Ser  
 100 105 110  
 Pro Ala Gln Pro Leu Phe Ser Ser Arg Phe Pro Lys Cys Leu Thr Arg  
 115 120 125  
 Leu Glu Pro Arg Leu Ser Thr Gly Gln Thr Gln His Asn Arg Ile Asn  
 130 135 140  
 Val Val Tyr Gly Leu Cys Ala Ala Leu Ser Thr Met Leu Asp Leu Val  
 145 150 155 160  
 Phe Ile Ile Phe Ser Tyr Ile Met Ile Leu Lys Thr Val Leu Gly Ile  
 165 170 175  
 Gly Thr Pro Arg Glu Gln Phe Lys Ala Leu Asn Thr Cys Phe Ser His  
 180 185 190  
 Ile Cys Pro Val Leu Ile Phe Tyr Val Pro Met Leu Ser Ala Ala Met  
 195 200 205  
 Leu His His Phe Ala Lys Asn Val Phe Pro Leu Thr His Ile Leu Met  
 210 215 220  
 Ala Asp Val Phe Leu Leu Val Pro Pro Leu Met Asn Pro Ile Val Tyr  
 225 230 235 240  
 Cys Val Lys Thr Cys Gln Ile Arg Glu Lys Ile Leu Arg Lys Leu Cys  
 245 250 255  
 Ser Lys Lys Lys Leu Ile Gln Gly Arg Arg Lys Gln Ile Lys Val  
 260 265 270

<210> 2172  
 <211> 285  
 <212> PRT  
 <213> Mus musculus

<400> 2172  
 Met Thr Leu Ser Leu Met Leu Ala Ser Arg Asn Ser Ser Ser His Ser  
 1 5 10 15  
 Thr Phe Phe Ile Leu Leu Ala Ile Pro Gly Leu Glu Asn Tyr Gln Phe  
 20 25 30  
 Val Val Phe Leu Phe Cys Val Met Tyr Ile Val Ala Val Thr Gly Asn  
 35 40 45



Thr	Thr	Ile	Leu	His	Ile	Ile	His	Ile	Asp	His	Thr	Leu	His	Glu	Pro
50					55						60				
Met	Tyr	Leu	Phe	Leu	Ala	Met	Leu	Ala	Thr	Thr	Asp	Leu	Val	Leu	Ser
65				70					75						80
Ser	Ser	Thr	Gln	Pro	Lys	Met	Leu	Ala	Ile	Leu	Trp	Phe	His	Asp	His
			85						90					95	
Lys	Ile	Glu	Tyr	His	Ala	Cys	Leu	Ile	Gln	Val	Phe	Phe	Ile	His	Ala
		100						105					110		
Phe	Ser	Ser	Val	Glu	Ser	Gly	Val	Leu	Met	Thr	Met	Ala	Leu	Asp	Arg
		115					120					125			
Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu	Arg	His	Ser	Ser	Ile	Leu	Thr	Thr
	130						135				140				
Ser	Ala	Val	Ile	Lys	Leu	Gly	Ala	Val	Val	Met	Val	Arg	Gly	Leu	Leu
145				150						155					160
Trp	Val	Ser	Pro	Phe	Cys	Phe	Met	Val	Ser	Arg	Met	Pro	Phe	Cys	Pro
			165						170					175	
Asn	Lys	Val	Ile	Ser	Gln	Ser	Tyr	Cys	Asp	His	Met	Ala	Val	Phe	Lys
		180						185					190		
Leu	Ile	Cys	Ala	Asp	Thr	Arg	Val	Asn	His	Glu	Tyr	Gly	Leu	Phe	Val
		195					200					205			
Ala	Phe	Ser	Val	Val	Gly	Phe	Asp	Ile	Ile	Val	Ile	Ser	Val	Ser	Tyr
	210					215					220				
Val	Met	Ile	Leu	Arg	Ala	Val	Leu	Arg	Leu	Pro	Ser	Gly	Glu	Ala	Arg
225				230						235					240
Leu	Lys	Ala	Phe	Gly	Thr	Cys	Ala	Ser	His	Ile	Gly	Val	Ile	Leu	Thr
			245						250					255	
Leu	Tyr	Ile	Pro	Ala	Leu	Phe	Thr	Phe	Leu	Thr	His	Leu	Phe	Gly	His
		260					265						270		
His	Val	Pro	Leu	Val	Val	His	Ile	Ile	Phe	Ala	Asn	Val			
	275						280					285			

<210> 2173  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (109)...(238)  
 <223> Any amino acid

<221> VARIANT  
 <222> (240)...(246)  
 <223> Any amino acid

<400> 2173

Met	Leu	Thr	Tyr	Asn	Lys	Thr	Asn	Val	His	Pro	Ser	Thr	Phe	Ile	Leu
1				5				10					15		
Ile	Gly	Ile	Pro	Gly	Leu	Glu	Ala	Ala	His	Met	Trp	Ile	Ser	Ile	Pro
			20				25						30		
Phe	Cys	Met	Gly	Tyr	Ile	Leu	Ala	Leu	Val	Gly	Asn	Ser	Ser	Leu	Leu
		35					40					45			
Phe	Ile	Ile	Lys	Thr	Asp	Ser	Ser	Leu	His	Glu	Pro	Met	Tyr	Leu	Phe
	50				55						60				
Leu	Cys	Met	Leu	Ala	Val	Ala	Asp	Leu	Val	Val	Cys	Thr	Thr	Ala	Val
65				70						75					80

Pro	Lys	Leu	Leu	Ser	Leu	Phe	Trp	Phe	His	Val	Gly	Glu	Ile	Arg	Phe
				85					90					95	
Glu	Ala	Cys	Leu	Thr	Gln	Val	Phe	Leu	Ile	His	Ser	Xaa	Xaa	Xaa	Xaa
			100					105					110		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		115					120					125			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	130					135					140				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
145					150					155					160
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				165				170						175	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			180				185						190		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		195					200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	210					215					220				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Xaa
225					230					235					240
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Leu
				245				250						255	
Val	Phe	Tyr	Thr	Pro	Ala	Phe	Phe	Ser	Phe	Leu	Thr	His	Arg	Phe	Gly
			260					265					270		
His	Lys	Val	Ala	Pro	His	Val	His	Ile	Leu	Val	Ala	Asn	Met	Tyr	Leu
		275					280					285			
Leu	Val	Pro	Pro	Met	Leu	Asp	Pro	Ile	Ile	Tyr	Gly	Val	Arg	Thr	Lys
	290					295					300				
Lys	Ile	Arg	Asp	Arg	Phe	Leu	Lys	Leu	Phe	Leu	Phe	Gln	Arg	Val	
305					310					315					

<210> 2174  
 <211> 353  
 <212> PRT  
 <213> Mus musculus

<400> 2174

Met	Pro	Ser	Phe	Asn	Gln	Ser	Ser	Ala	Gln	His	His	Ser	Phe	Phe	Phe
1				5					10					15	
Leu	Pro	Gly	Ile	Pro	Gly	Leu	Glu	Leu	Ser	His	Asn	Trp	Thr	Ser	Met
			20					25					30		
Ser	Phe	Cys	Tyr	Ala	Ile	Thr	Val	Ser	Gly	Asn	Gly	Ile	Ile	Leu	Phe
		35					40					45			
Val	Thr	Ile	Thr	Glu	Ser	Ser	Leu	Pro	Gly	Pro	Met	His	Tyr	Phe	Leu
	50					55					60				
Ser	Met	Leu	Ser	Phe	Thr	Asp	Leu	Gly	Leu	Cys	Leu	Ser	Leu	Leu	Val
65					70					75					80
Thr	Met	Leu	Ala	Asn	Ile	Trp	Ile	Val	Val	Glu	Ile	Arg	Leu	Leu	Lys
				85					90					95	
Thr	Ile	Phe	Asn	Phe	Phe	Glu	Asn	Leu	Tyr	Ile	Tyr	Thr	Met	Pro	Phe
			100					105					110		
Asp	His	Met	His	Leu	Ala	Leu	Pro	Phe	Ser	Asp	Ile	Pro	Tyr	Ser	Thr
		115					120					125			
Tyr	Ser	Val	Trp	Lys	Glu	Ser	Lys	Arg	Trp	Met	Arg	Arg	Asn	Val	Val
	130					135					140				
Val	Thr	Ser	Gly	Gln	Asp	Met	Leu	Leu	Tyr	Ile	Ser	Thr	His	Arg	Glu

145					150					155				160
Tyr	Gly	Tyr	Ala	Gln	Asn	Leu	Gln	Tyr	Glu	Trp	Glu	Lys	Ser	Cys
				165					170					175
Glu	Glu	Lys	Ser	Ala	Gln	Cys	Leu	His	Trp	Pro	Asn	Val	Ile	Tyr
			180					185					190	
Phe	Ile	Phe	Met	Asp	Ser	Ser	Val	Leu	Leu	Val	Ile	Ala	Phe	Glu
			195				200					205		
Phe	Thr	Val	Ile	Cys	Asp	Ser	Leu	Gly	Cys	Ala	Val	Ile	Ser	Thr
	210					215					220			
Ser	Arg	Leu	Ile	Thr	Val	Gly	Phe	Ala	His	Val	Ala	Met	Arg	Thr
225					230					235				240
Ala	Pro	Val	Leu	Leu	Leu	Leu	Leu	Phe	Lys	His	Leu	Cys	Phe	Cys
				245					250					255
Arg	His	Met	His	Ile	Gln	Tyr	Val	Leu	Ile	Ile	His	Ser	Val	Leu
			260				265						270	
Ser	Val	Ser	Ser	Glu	Gly	Trp	Lys	Val	Leu	Gly	Ala	Cys	Leu	Ser
		275					280					285		
Leu	Ser	Ala	Ala	Thr	Ile	Ser	Tyr	Met	Pro	Thr	Ser	Val	Cys	Leu
	290					295					300			
Gln	Arg	Phe	Arg	Lys	His	Asp	Leu	Pro	Phe	Leu	Tyr	Ile	Ser	Met
305					310					315				320
Gly	Val	Cys	Leu	Leu	Ile	Pro	Ser	Met	Asn	Leu	Ile	Ile	His	His
				325					330					335
Arg	His	Glu	Asn	Lys	Pro	Leu	Val	Lys	Phe	Ser	Phe	Thr	Ser	Tyr
			340					345					350	

Arg

<210> 2175  
 <211> 276  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (163)...(164)  
 <223> Any amino acid

<221> VARIANT  
 <222> (166)...(199)  
 <223> Any amino acid

<400> 2175

Met	Ser	Ile	Phe	Leu	Met	Ser	Asn	Leu	Ser	Thr	Ser	Arg	Phe	Val	Leu
1				5				10						15	
Thr	Gly	Phe	Pro	Gly	Leu	Glu	Phe	Tyr	Tyr	Ile	Leu	Leu	Ala	Ile	Pro
			20				25						30		
Phe	Ser	Thr	Val	Tyr	Ala	Met	Val	Phe	Leu	Gly	Asn	Cys	Met	Ile	Leu
		35					40					45			
His	Val	Ile	Arg	Thr	Glu	Ser	Ser	Leu	His	Gln	Pro	Met	Phe	Tyr	Phe
	50					55					60				
Leu	Ala	Met	Leu	Ala	Leu	Thr	Asp	Leu	Cys	Met	Gly	Leu	Ser	Thr	Val
65					70					75					80
His	Thr	Val	Leu	Gly	Ile	Leu	Trp	Gly	Phe	Leu	Gln	Glu	Ile	Ser	Leu
			85					90					95		
Asp	Ala	Cys	Ile	Ala	Gln	Ser	Tyr	Phe	Ile	His	Gly	Leu	Ser	Ile	Met



				165					170					175			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				180					185					190			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				195					200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				210					215					220			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Gly	Ser	His	Phe	Ile	Leu	
				245						250							
Ile	Leu	Phe	Phe	Ser	Thr	Val	Leu	Leu	Val	Leu	Val	Ile	Thr	Asn	Leu		
				260						265				270			
Ala	Arg	Glu	Arg	Ile	Pro	Pro	Asp	Ile	Pro	Ile	Leu	Leu	Asn	Ile	Leu		
				275						280				285			
His	His	Leu	Ile	Pro	Pro	Ala	Leu	Asn	Pro	Ile	Val	Tyr	Gly	Val	Arg		
				290						295				300			
Thr	Arg	Glu	Ile	Lys	Gln	Gly	Ile	Gln	Asn	Leu	Leu	Arg	Arg	Leu			
				305						310				315			

<210> 2177

<211> 322

<212> PRT

<213> Mus musculus

<400> 2177

Met	Glu	Leu	Asp	Pro	Ala	Val	Pro	Ala	Leu	Lys	Lys	Thr	Leu	Ser	Glu		
1				5					10					15			
Pro	Gly	Pro	Phe	Val	Leu	Leu	Gly	Val	Ala	Glu	Leu	Glu	Gly	Leu	His		
				20					25					30			
Ala	Trp	Phe	Ser	Val	Pro	Met	Ser	Leu	Leu	Tyr	Leu	Val	Gly	Met	Ile		
				35					40					45			
Gly	His	Leu	Leu	Leu	Gly	Val	Val	Ala	Val	Asp	Thr	Thr	Leu	Gln	Ala		
				50					55					60			
Pro	Met	Tyr	Gln	Leu	Leu	Gly	Leu	Leu	Ala	Ala	Ala	Asp	Leu	Ile	Leu		
65									70					75			80
Ala	Thr	Ser	Pro	Ala	Pro	Lys	Ala	Gln	Ala	Val	Leu	Trp	Gly	Leu	Phe		
				85					90					95			
Gly	Glu	Ile	Ser	Phe	Gly	Gly	Trp	Leu	Ala	Gln	Cys	Phe	Val	Val	His		
				100					105					110			
Val	Ala	Phe	Thr	Ala	Glu	Ser	Ser	Val	Leu	Pro	Ala	Met	Ala	Met	Asp		
				115					120					125			
His	Ser	Val	Ser	Ile	Arg	Gln	Pro	Leu	Cys	Tyr	Gly	Ala	Leu	Leu	Ser		
				130					135					140			
Gln	His	Val	Val	Gly	Ile	Val	Ala	Ala	Ala	Ala	Val	Thr	His	Gly	Ala		
				145					150					155			160
Arg	Val	Met	Ala	Pro	Pro	Val	Val	Leu	Leu	Gln	Thr	Leu	Pro	His	Cys		
				165					170					175			
Gly	His	Arg	Ala	Ser	Pro	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Val	Ala		
				180					185					190			
Cys	Leu	Ala	Cys	Asp	Asp	Thr	Cys	Pro	Asn	Ile	Trp	Phe	Gly	Leu	Ala		
				195					200					205			
Thr	Thr	Leu	Pro	Ser	Pro	Val	Leu	Asp	Leu	Gly	Leu	Ile	Asp	Val	Ser		
				210					215					220			
Tyr	Ala	Leu	His	Ala	Val	Ser	Arg	Leu	Leu	Cys	His	Ser	Ala	His	Tyr		
				225					230					235			240

Lys Ala Leu Gly Lys His Gly Thr His Ala Ala Gly Leu Phe Tyr Lys  
                   245                  250                  255  
 Pro Ala Leu Phe Ser Phe Leu Ala Tyr Cys Cys Gly Leu His Thr Ile  
                   260                  265                  270  
 Pro Ser His Ile His Ile Leu Leu Ala Asn Leu Tyr Val Val Val Pro  
                   275                  280                  285  
 Pro Ala Met Val Val Pro Pro Phe Leu Lys Pro Val Leu Tyr Gly Val  
                   290                  295                  300  
 Arg Met Gln Gln Ile Thr Gln Arg Leu Arg Leu Val Leu Gln Arg Val  
 305                  310                  315                  320  
 Arg Lys

<210> 2178  
 <211> 322  
 <212> PRT  
 <213> Mus musculus

<400> 2178  
 Met Thr Gln Gly Ser Thr Thr Ala Met Arg Gly Gln Asn Asp Ser Ser  
 1                  5                  10                  15  
 Val Ala Glu Phe Ile Leu Leu Gly Phe Ser Asn Tyr Pro Glu Leu Gln  
                   20                  25                  30  
 Arg Gln Met Phe Gly Ala Phe Leu Val Ile Tyr Leu Val Thr Leu Thr  
                   35                  40                  45  
 Gly Asn Ala Leu Ile Met Ser Val Ile Leu Leu Asp Arg Ser Leu His  
                   50                  55                  60  
 Ile Pro Met Tyr Leu Phe Leu Gln Asn Leu Ser Val Val Glu Thr Gly  
 65                  70                  75                  80  
 Phe Ser Thr Thr Val Met Pro Glu Met Leu Val Val Leu Thr Ser Glu  
                   85                  90                  95  
 Lys Ala Thr Ile Ser Phe Gly Gly Cys Phe Ala Gln Met Tyr Phe Ile  
                   100                  105                  110  
 Leu Leu Phe Gly Gly Thr Glu Cys Phe Leu Leu Gly Ala Met Ala Tyr  
                   115                  120                  125  
 Asp Arg Phe Ala Ala Ile Cys His Pro Leu Ser Tyr Pro Val Ile Met  
                   130                  135                  140  
 Asn Lys Arg Val Phe Met Thr Leu Val Thr Cys Ser Trp Leu Ser Gly  
 145                  150                  155                  160  
 Thr Met Met Thr Thr Leu Gln Thr Ile Trp Val Phe Ser Phe Pro Tyr  
                   165                  170                  175  
 Cys Gly Ser Asn Glu Ile Asn His Ile Ser Cys Glu Thr Pro Ala Val  
                   180                  185                  190  
 Leu Glu Leu Ala Cys Thr Asp Ile Phe Phe Phe Glu Ile Tyr Ala Phe  
                   195                  200                  205  
 Thr Gly Thr Val Leu Ile Ile Leu Thr Pro Phe Val Leu Ile Leu Leu  
                   210                  215                  220  
 Ser Tyr Ile Arg Ile Leu Phe Ser Ile Leu Lys Met Pro Ser Thr Thr  
 225                  230                  235                  240  
 Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr Ser Val  
                   245                  250                  255  
 Thr Leu Phe Tyr Gly Thr Ala Ser Met Thr Tyr Leu Gln Pro Lys Ser  
                   260                  265                  270  
 Lys Tyr Ser Pro Asp Thr Lys Lys Leu Met Ser Leu Ala Tyr Ser Leu  
                   275                  280                  285  
 Leu Thr Pro Leu Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu

290	295	300
Met Lys Arg Ala Val	Val Lys Leu Trp Glu Arg	Lys Val Ala Leu His
305	310	315 320
Thr Thr		

<210> 2179  
 <211> 290  
 <212> PRT  
 <213> Mus musculus

<400> 2179

Gln Phe Trp Ile Gly Phe Pro Phe Phe Thr Val Cys Leu Val Ala Leu	
1 5 10 15	
Leu Gly Asn Ile Ile Leu Leu Ile Ile Ile Pro Ala Glu Arg Ser Leu	
20 25 30	
His Gln Pro Met Tyr Ile Phe Leu Ala Val Leu Ala Ala Thr Asp Ile	
35 40 45	
Gly Leu Cys Ala Ala Ile Ala Pro Lys Met Leu Ala Ile Phe Trp Phe	
50 55 60	
Arg Ala Tyr Ser Met Ala Phe Asp Ala Cys Leu Ala Gln Leu Phe Phe	
65 70 75 80	
Ile His Thr Leu Gln Cys Met Glu Ser Gly Ile Leu Leu Ala Met Ala	
85 90 95	
Phe Asp Arg Tyr Ile Ala Ile Cys Asp Pro Leu Arg His Thr Ser Ile	
100 105 110	
Leu Thr Pro Ser Ile Leu Gly Arg Met Ile Val Val Val Val Ile Gly	
115 120 125	
Ala Val Val Leu Val Gly Leu Leu Pro Ile Leu Ile Lys Arg Leu His	
130 135 140	
His Phe Trp Ser Ile Gln Ile Ala His Ser Tyr Cys Glu His Met Ala	
145 150 155 160	
Val Val Lys Leu Ala Ala Asp Asp Val Gln Val Asn Lys Ile Cys Gly	
165 170 175	
Leu Phe Val Gly Phe Ser Ile Leu Gly Phe Asp Met Val Phe Ile Ile	
180 185 190	
Ile Ser Tyr Ala Leu Ile Phe Gln Ala Val Phe Arg Leu Lys Gln Lys	
195 200 205	
Glu Ala Arg Leu Lys Ala Phe Asn Thr Cys Thr Ala His Ile Phe Val	
210 215 220	
Phe Leu Glu Phe Tyr Ile Leu Ala Phe Phe Ser Phe Phe Ser His Arg	
225 230 235 240	
Phe Gly His Val Val Pro Ser Thr His Ile Leu Leu Ser Thr Ile Tyr	
245 250 255	
Leu Leu Leu Pro Pro Ala Leu Asn Pro Ile Val Tyr Gly Val Lys Asn	
260 265 270	
Met Val Ile Arg Lys Arg Val Ala Gln Ile Phe Phe Leu Asp His Ala	
275 280 285	
His Gln	
290	

<210> 2180  
 <211> 230  
 <212> PRT  
 <213> Mus musculus

<400> 2180

Met	Asp	Lys	Lys	Asn	Gln	Thr	Lys	Val	Thr	Glu	Ile	Tyr	Phe	Ser	Asp
1				5					10					15	
Phe	Pro	Gln	Phe	Glu	Asp	Gly	Gly	Leu	Leu	Phe	Ile	Leu	Leu	Leu	
		20						25				30			
Cys	Val	Tyr	Leu	Phe	Ile	Val	Val	Gly	Asn	Ala	Val	Ile	Phe	Leu	Ala
		35						40				45			
Val	Gln	Leu	Asp	Val	Arg	Leu	His	Asn	Pro	Met	Tyr	Ser	Phe	Ile	Ser
	50					55					60				
Ile	Phe	Ser	Phe	Leu	Glu	Ile	Cys	Tyr	Thr	Thr	Val	Thr	Ile	Pro	Gln
65					70					75					80
Met	Leu	Tyr	Asn	Leu	Val	Ser	Lys	Glu	Lys	Thr	Ile	Ser	Phe	Ile	Gly
			85					90						95	
Cys	Leu	Leu	Gln	Met	Tyr	Phe	Phe	His	Ser	Phe	Gly	Val	Thr	Glu	Ser
			100					105					110		
Leu	Val	Leu	Thr	Ile	Met	Ala	Ile	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115						120					125			
Pro	Leu	Arg	Tyr	Ala	Ile	Ile	Ile	Thr	Pro	Lys	Leu	Cys	Thr	Gln	Leu
	130					135					140				
Ser	Thr	Gly	Ser	Phe	Thr	Leu	Gly	Phe	Leu	Met	Leu	Leu	Pro	Glu	Ile
145					150					155					160
Val	Trp	Ile	Ser	Thr	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Gln	Ile	His	Gln
			165					170						175	
Leu	Phe	Cys	Asp	Leu	Glu	Pro	Met	Leu	Leu	Leu	Ala	Cys	Thr	Asp	Thr
			180					185					190		
Ser	Met	Ile	Leu	Val	Glu	Asp	Val	Ile	His	Ala	Ile	Ser	Ile	Leu	Ser
	195						200					205			
Cys	Val	Ser	Ile	Ile	Ser	Leu	Ser	Tyr	Leu	Arg	Ile	Ile	Thr	Arg	Ile
	210					215					220				
Leu	Lys	Ile	Pro	Ser	Gly										
225					230										

<210> 2181

<211> 316

<212> PRT

<213> Mus musculus

<400> 2181

Met	Asp	Lys	Lys	Asn	Gln	Thr	Lys	Val	Thr	Glu	Phe	Tyr	Phe	Ser	Asp
1				5					10					15	
Phe	Pro	Gln	Phe	Glu	Asp	Gly	Gly	Leu	Leu	Leu	Phe	Ile	Leu	Leu	Leu
		20						25					30		
Cys	Val	Tyr	Leu	Phe	Ile	Val	Val	Gly	Asn	Ala	Met	Ile	Phe	Leu	Ala
		35						40				45			
Val	Gln	Leu	Asp	Val	Arg	Leu	His	Asn	Pro	Met	Tyr	Ser	Phe	Ile	Ser
	50					55					60				
Ile	Phe	Ser	Phe	Leu	Glu	Ile	Cys	Tyr	Thr	Thr	Val	Thr	Ile	Pro	Gln
65					70					75					80
Met	Leu	Tyr	Asn	Leu	Val	Ser	Lys	Glu	Lys	Thr	Ile	Ser	Phe	Ile	Gly
			85					90						95	
Cys	Leu	Leu	Gln	Met	Tyr	Phe	Phe	His	Ser	Phe	Gly	Ile	Thr	Glu	Gly
			100					105					110		
Leu	Val	Leu	Thr	Ile	Met	Ala	Ile	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115						120					125			
Pro	Leu	Arg	Tyr	Ala	Ile	Ile	Ile	Thr	Pro	Lys	Leu	Cys	Thr	Gln	Leu



130		135		140
Ser Thr Gly Leu Cys Thr	Leu Gly Phe Leu Met	Leu Leu Pro Glu Ile		
145	150	155		160
Val Trp Ile Ser Thr	Leu Pro Phe Cys Gly Pro	Asn Gln Ile His Gln		
	165	170		175
Leu Phe Cys Asp Leu Glu Pro	Val Leu Leu Ala Cys Thr	Asp Thr		
	180	185		190
Ser Met Ile Leu Val Glu Asp	Ile Ile His Ala Ile	Ser Ile Leu Ser		
	195	200		205
Cys Val Ser Ile Ile Ser	Leu Ser Tyr Leu Arg Ile	Ile Thr Val Val		
	210	215		220
Leu Lys Ile Pro Ser Gly Glu	Ser Arg Gln Lys Ala Phe	Ser Thr Cys		
225	230	235		240
Thr Ala His Ile Thr Ile	Phe Val Leu Phe Phe Gly	Ser Val Ser Leu		
	245	250		255
Met Tyr Leu Arg Phe Ser	Val Thr Phe Gln Pro Leu	Leu Glu Lys Val		
	260	265		270
Ile Ala Leu Met Phe Ala	Val Leu Ala Pro Phe Phe	Asn Pro Ile Ile		
	275	280		285
Tyr Ser Leu Arg Asn Lys	Asp Met Lys Lys Ala Ile	Lys Glu Met Phe		
	290	295		300
Cys Ser Gln Lys Val Arg	Arg Leu Trp Glu Pro Met			
305	310	315		

<210> 2182  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (163)...(171)  
 <223> Any amino acid

<221> VARIANT  
 <222> (173)...(221)  
 <223> Any amino acid

<400> 2182

Met Val Ile Lys Gly Leu Gln Val	Asp Asn Trp Thr Glu Thr Thr His
1	5 10 15
Phe Val Leu Leu Gly Phe Pro Ser	Arg Pro Ala Phe Gln Phe Leu Leu
	20 25 30
Phe Ser Val Phe Leu Val Thr Tyr	Leu Leu Thr Leu Ala Glu Asn Leu
	35 40 45
Leu Ile Ile Leu Ala Ile Arg Ser	Asp Gly Gln Leu His Lys Pro Met
	50 55 60
Tyr Phe Phe Leu Ser His Leu Ser	Phe Leu Glu Met Trp Tyr Val Thr
65	70 75 80
Val Ile Ser Pro Lys Met Leu Val	Asp Phe Leu Ser Lys Asp Lys Ser
	85 90 95
Ile Ser Phe Asn Gly Cys Met Thr	Gln Leu Tyr Phe Phe Val Thr Phe
	100 105 110
Val Cys Thr Glu Tyr Ile Leu Leu	Ala Val Met Ala Phe Asp Arg Tyr
	115 120 125
Val Ala Ile Cys Asn Pro Leu Arg	Tyr Pro Val Ile Met Thr Asn Gln

130		135		140
Leu Cys Gly Val Met Ala Gly Gly Cys Trp Phe Cys Gly Leu Met Thr				
145		150		155
Ala Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa				160
		165		170
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa				175
		180		185
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa				190
		195		200
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa				205
		210		215
Ala Gln Gly Arg Gln Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr				220
225		230		235
Val Val Thr Leu Phe Tyr Ser Thr Thr Leu Phe Thr Tyr Ala Arg Pro				240
		245		250
Lys Leu Met Tyr Ala Tyr Asn Ser Asn Lys Val Val Ser Val Leu Tyr				255
		260		265
Thr Val Val Val Pro Leu Leu Asn Pro Ile Ile Tyr Cys Leu Arg Asn				270
		275		280
Arg Asp Val Lys Met Ala Leu Lys Lys Thr Ile Leu Cys Asn Arg Ser				285
		290		295
Gly Ser Gly Gly Asp Gly Asp Phe Ser Ser				300
305		310		

<210> 2183  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2183

Met Leu Gly Gln Asn Gln Ser Trp Val Ser Glu Phe Ile Leu Ile Gly	
1	5
Phe Ser Ser Asp Pro Thr Thr Asn Ser Ile Leu Phe Ile Val Phe Leu	
	10
	15
	20
Leu Ile Tyr Leu Ser Ser Val Leu Gly Asn Gly Leu Ile Ile Met Leu	
	25
	30
	35
Val Cys Leu Asp Thr Gln Leu His Thr Pro Met Tyr Phe Phe Leu Cys	
	40
	45
	50
Thr Leu Ser Leu Leu Asp Met Gly Tyr Val Thr Thr Met Pro Gln	
	55
	60
	65
Met Leu Val His Leu Leu Ala His Ser Gln Thr Ile Ser Phe Ala Gly	
	70
	75
	80
	85
Cys Trp Leu Gln Met Phe Val Phe Gly Ala Leu Ser Ile Thr Glu Cys	
	90
	95
	100
Met Ile Phe Val Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Tyr	
	105
	110
	115
Pro Leu Arg Tyr Thr Val Ile Leu Asn Asp Leu Cys Ile Arg Leu Ala	
	120
	125
	130
Ala Gly Ser Trp Ile Cys Gly Phe Phe Ser Ser Leu Leu Asn Thr Phe	
	135
	140
	145
Phe Thr Met Ser Leu Pro Tyr Cys Gly Pro Asn Asn Val Asn His Tyr	
	150
	155
	160
	165
Leu Cys Glu Gly Pro Ser Val Arg Ser Leu Ala Cys Met Asp Thr His	
	170
	175
	180
Phe Val Glu Met Val Asp Leu Val Leu Ser Val Phe Val Val Val Thr	
	185
	190
	195
	200
	205

Pro	Ile	Ser	Leu	Ile	Val	Ala	Ser	Tyr	Ile	Arg	Ile	Ala	Lys	Ala	Ile
210						215					220				
Leu	Lys	Ile	Lys	Ser	Thr	Gln	Gly	Arg	Cys	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Thr	Val	Val	Thr	Leu	Phe	Tyr	Leu	Pro	Ala	Thr	Tyr
			245						250					255	
Ile	Tyr	Met	Arg	Pro	Asn	Ser	Ser	Ser	Ser	Ser	Glu	Arg	Asp	Lys	Gln
			260					265					270		
Ile	Ser	Leu	Phe	Tyr	Thr	Ala	Phe	Thr	Pro	Leu	Leu	Asn	Pro	Val	Val
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Arg	Ala	Phe	Leu	Lys	Val	Met
	290					295					300				
Leu	Tyr	Gly	Arg	Trp	Ile	Arg	Gly	Pro	Gln	Trp					
305					310					315					

<210> 2184  
 <211> 180  
 <212> PRT  
 <213> Mus musculus

<400> 2184

His	Trp	Gly	Leu	Cys	Ile	Arg	Leu	Ala	Ala	Gly	Ser	Trp	Ile	Cys	Gly
1				5					10					15	
Phe	Phe	Ser	Ser	Leu	Leu	His	Thr	Phe	Phe	Thr	Met	Ser	Leu	Pro	Tyr
			20					25					30		
Cys	Gly	Pro	Asn	Arg	Val	Asn	His	Tyr	Leu	Cys	Glu	Gly	Pro	Ser	Val
		35				40						45			
Arg	Ser	Leu	Ala	Cys	Met	Asp	Thr	His	Ile	Ile	Glu	Met	Val	Asp	Leu
	50					55					60				
Val	Leu	Ser	Val	Phe	Leu	Val	Val	Thr	Pro	Ile	Ser	Leu	Ile	Val	Ala
65					70					75					80
Ser	Tyr	Ile	Arg	Ile	Ala	Met	Ala	Ile	Leu	Lys	Ile	Lys	Ser	Thr	Glu
			85					90						95	
Gly	Arg	Cys	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val
		100						105					110		
Thr	Phe	Phe	Tyr	Ala	Pro	Ala	Ser	Tyr	Ile	Tyr	Met	Arg	Pro	Asn	Ser
	115						120					125			
Ser	Tyr	Ser	Pro	Glu	Gln	Asp	Lys	Gln	Ile	Ser	Leu	Phe	Tyr	Ser	Ala
	130					135					140				
Phe	Thr	Pro	Leu	Leu	Asn	Pro	Val	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp
145					150					155					160
Ile	Lys	Arg	Ala	Phe	Phe	Lys	Val	Met	Gly	Tyr	Asp	Arg	Cys	Ala	Ser
			165						170					175	
Gly	Pro	Gly	Trp												
			180												

<210> 2185  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 2185

Met	Ala	Arg	Gly	Asn	Gln	Thr	Ser	Ile	Phe	Glu	Phe	Leu	Leu	Trp	Gly
1				5					10					15	
Leu	Ser	Glu	Gln	Pro	Gln	Gln	Gln	His	Ile	Leu	Phe	Leu	Val	Phe	Leu





Met	Leu	Ala	Asn	His	Leu	Leu	Gly	Arg	Lys	Ala	Ile	Ser	Phe	Gly	Gly
				85					90					95	
Cys	Met	Ser	Gln	Met	Tyr	Phe	Met	Ile	Ser	Leu	Gly	Asn	Thr	Asp	Ser
			100					105					110		
Tyr	Ile	Leu	Ala	Pro	Lys	Ala	Tyr	Asp	Arg	Ala	Val	Ala	Ile	Ser	Cys
		115					120					125			
Pro	Leu	His	Tyr	Ala	Thr	Ile	Met	Ser	Ser	Arg	Pro	Val	Leu	Leu	Val
	130					135					140				
Ala	Gly	Ser	Trp	Val	Ile	Glu	Asn	Ala	Asn	Val	Leu	Pro	His	Thr	Leu
145					150					155					160
Leu	Thr	Ala	Tyr	Ile	Ala	Leu	Cys	Gly	Asn	Lys	Asp	Val	Ala	Asn	Phe
			165						170					175	
Tyr	Phe	Asp	Ile	Met	Pro	Leu	Leu	Val	Ser	Cys	Ser	Asp	Ile	Cys	Phe
		180						185					190		
Asn	Val	Lys	Met	Met	Tyr	Leu	Gly	Val	Gly	Val	Phe	Ser	Val	Pro	Leu
		195					200					205			
Leu	Ser	Phe	Ile	Ser	Tyr	Val	Pro	Val	Phe	Ser	Ile	Val	Leu	Arg	Val
	210					215					220				
Pro	Cys	Thr	Thr	Gly	Phe	Leu	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His
225					230					235					240
Leu	Thr	Val	Val	Ser	Leu	Tyr	Tyr	Gly	Thr	Val	Met	Gly	Met	Tyr	Phe
			245						250					255	
Arg	Pro	Leu	Thr	Ser	Tyr	Ser	Leu	Lys	His	Ala	Leu	Ile	Thr	Val	Met
		260						265					270		
Tyr	Thr	Ala	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg
	275						280					285			
Asn	Arg	Asp	Met	Lys	Ala	Ala	Leu	Arg	Lys	Leu	Phe	His	Cys	Pro	Ser
	290					295					300				
Ser	Ser	Ser	Ser	Leu	Met										
305					310										

<210> 2188  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2188

Met	Arg	Glu	Glu	Asn	Glu	Ser	Ser	Thr	Thr	Asp	Phe	Thr	Leu	Leu	Gly
1				5					10					15	
Val	Thr	Arg	Gln	Arg	Glu	Gln	Glu	Tyr	Phe	Phe	Phe	Ile	Leu	Phe	Leu
			20					25					30		
Phe	Leu	Tyr	Pro	Ile	Thr	Val	Ile	Glu	Asn	Met	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Ile	His	Ser	Asp	Thr	His	Leu	His	Asn	Thr	Met	Tyr	Phe	Phe	Leu	Ala
	50					55					60				
Asn	Arg	Ser	Leu	Val	Asp	Ile	Phe	Ser	Val	Thr	Ile	Pro	Lys	Met	Leu
65					70					75					80
Ala	Asn	His	Leu	Leu	Gly	Arg	Lys	Ala	Ile	Ser	Phe	Gly	Gly	Cys	Met
			85						90					95	
Ser	Gln	Met	Tyr	Phe	Met	Leu	Ser	Leu	Gly	Asn	Thr	Glu	Ser	Cys	Ile
		100						105					110		
Leu	Ala	Ser	Val	Ala	Tyr	Asp	Ala	Val	Ala	Ile	Ser	Cys	Pro	Leu	His
	115					120						125			
Tyr	Pro	Thr	Ile	Met	Ser	Pro	Arg	Pro	Cys	Val	Leu	Leu	Val	Ala	Gly
	130					135					140				
Ser	Trp	Val	Ile	Ala	Asn	Ala	Asn	Val	Leu	Pro	His	Thr	Leu	Leu	Thr

145					150					155				160
Ala	Arg	Leu	Ser	Phe	Phe	Gly	Asn	Lys	Asp	Val	Ala	Asn	Phe	Tyr
				165					170					175
Asp	Ile	Ile	Pro	Leu	Leu	Gln	Met	Ser	Cys	Ser	Asp	Ile	Cys	Phe
			180					185					190	Asn
Val	Lys	Met	Met	Tyr	Leu	Gly	Val	Arg	Ile	Phe	Pro	Val	Pro	Leu
		195					200					205		Leu
Cys	Ile	Ile	Ile	Ser	Tyr	Val	Arg	Val	Phe	Ser	Thr	Val	Leu	Arg
	210					215					220			Val
Pro	Ser	Thr	Lys	Gly	Leu	Leu	Lys	Asp	Leu	Ser	Thr	Cys	Gly	Ser
225					230					235				His
Leu	Thr	Val	Met	Phe	Leu	Tyr	Tyr	Gly	Thr	Val	Met	Val	Met	Tyr
				245					250					255
Lys	His	Leu	Thr	Ser	Tyr	Ser	Leu	Lys	His	Thr	Leu	Ile	Ile	Val
			260					265					270	Met
Tyr	Met	Thr	Val	Thr	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg
	275						280					285		Asn
Arg	Asp	Met	Lys	Ala	Ala	Leu	Lys	Lys	Leu	Phe	His	Cys	Pro	Ser
	290					295						300		Ser
Ser	Ser	Ser	Ile	Met										
305														

<210> 2189  
 <211> 348  
 <212> PRT  
 <213> Mus musculus

<400> 2189

Met	Lys	Glu	Glu	Asn	Glu	Ser	Phe	Thr	Thr	Asp	Phe	Thr	Leu	Leu	Gly
1				5					10					15	
Val	Thr	Arg	Gln	Arg	Glu	Gln	Glu	Tyr	Phe	Phe	Phe	Ile	Leu	Phe	Leu
			20					25					30		
Phe	Phe	Tyr	Pro	Ile	Thr	Val	Ile	Glu	Asn	Val	Leu	Ile	Ile	Leu	Asp
		35					40					45			
Ile	Phe	Phe	Ser	Ser	Ala	Thr	Ile	Leu	Lys	Met	Leu	Ala	Asn	His	Leu
	50				55						60				
Leu	Gly	Ser	Lys	Ala	Pro	Ser	Ile	Ser	Phe	Gly	Glu	Cys	Arg	Ala	Gln
65				70					75						80
Met	Thr	Phe	Met	Thr	Ser	Leu	Ala	Asn	Thr	Asp	Ser	Cys	Ile	Leu	Ala
				85					90					95	
Ala	Met	Val	Tyr	Asp	Arg	Ser	Val	Ala	Ile	Ser	Cys	Ser	Leu	His	Tyr
			100					105					110		
Ala	Thr	Ile	Met	Ser	Leu	Leu	Cys	Ala	Leu	Leu	Asp	Ala	Gly	Ser	Trp
	115						120					125			
Val	Ile	Lys	Ala	Asn	Met	Leu	Pro	His	Thr	Gln	Leu	Thr	Ala	Arg	Leu
	130				135						140				
Ser	Phe	Cys	Gly	Asn	Lys	Asp	Val	Ala	Ile	Phe	Phe	Phe	Phe	Phe	Phe
145				150					155						160
Phe	Phe	Phe	Asp	Thr	Gly	Phe	Ser	Val	Pro	Trp	Leu	Ser	Trp	Asn	Ser
			165						170					175	
Phe	Cys	Arg	Thr	Gly	Pro	Thr	Gln	Lys	Ser	Ala	Cys	Leu	Cys	Leu	Ile
		180					185					190			
Ser	Ala	Gly	Ile	Lys	Gly	Val	Cys	His	His	Cys	Leu	Ala	Cys	Gly	Asn
	195					200						205			
Phe	Tyr	Cys	Asp	Asn	Met	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Ser	Asp	Ile
	210					215					220				

Cys	Phe	Asn	Val	Lys	Met	Met	Tyr	Leu	Gly	Val	Gly	Val	Phe	Ser	Val
225					230					235					240
Pro	Leu	Leu	Tyr	Ile	Ser	Tyr	Val	Arg	Val	Phe	Ser	Thr	Val	Leu	
				245					250					255	
Arg	Val	Pro	Ser	Thr	Lys	Gly	Phe	Leu	Lys	Ala	Leu	Ser	Thr	Cys	Gly
				260				265					270		
Pro	His	Leu	Thr	Val	Val	Ser	Leu	Tyr	Tyr	Gly	Thr	Val	Met	Val	Met
		275					280					285			
Tyr	Phe	Arg	Pro	Leu	Thr	Ser	Tyr	Ser	Leu	Lys	His	Thr	Leu	Ile	Ile
	290					295					300				
Val	Met	Tyr	Thr	Ala	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser
305					310					315					320
Leu	Arg	Asn	Arg	Asp	Met	Lys	Thr	Ala	Leu	Lys	Lys	Leu	Leu	His	Gln
				325					330					335	
Met	Gln	Thr	Leu	Leu	His	Met	Pro	Ala	Arg	Phe	Cys				
			340					345							

<210> 2190  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 2190

Met	Glu	Asn	Lys	Thr	Glu	Val	Thr	Gln	Phe	Phe	Leu	Gln	Gly	Leu	Ala
1				5					10					15	
Ser	Asp	Pro	Gly	Leu	Gln	Leu	Pro	Leu	Phe	Ile	Ile	Phe	Leu	Leu	Ile
			20					25					30		
Tyr	Thr	Ile	Thr	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Leu	Leu	Ile	Val
		35				40						45			
Leu	Asp	Ala	His	Leu	His	Ser	Pro	Met	Tyr	Ile	Phe	Leu	Gly	Asn	Leu
	50					55					60				
Ser	Leu	Val	Asp	Phe	Cys	Tyr	Ser	Ser	Gly	Val	Thr	Pro	Lys	Val	Met
65					70					75					80
Ala	Gly	Phe	Leu	Val	Gly	Asp	Lys	Val	Met	Ser	Tyr	Asn	Asp	Cys	Ala
			85						90					95	
Ala	Gln	Met	Phe	Val	Thr	Gly	Phe	Ala	Thr	Val	Glu	Asn	Tyr	Leu	
		100						105				110			
Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Ala	Ser	Thr	Met	Thr	Thr	Ser	Met	Cys	Ile	Trp	Met	Ile	Ala
	130					135					140				
Gly	Cys	Tyr	Ala	Cys	Gly	Phe	Leu	Asn	Ala	Cys	Ile	Tyr	Thr	Gly	Asp
145				150						155					160
Ala	Phe	Ser	Leu	Ser	Phe	Cys	Lys	Ala	Asp	Val	Val	His	His	Phe	Phe
			165						170					175	
Cys	Asp	Ile	Pro	Ala	Val	Met	Val	Leu	Ser	Cys	Ser	Asn	Lys	His	Ile
		180						185				190			
Asn	Glu	Leu	Val	Leu	Val	Cys	Val	Ala	Ser	Phe	Asn	Ile	Phe	Phe	Ala
		195					200					205			
Leu	Ile	Ile	Ile	Leu	Ile	Ser	Tyr	Leu	Met	Ile	Phe	Ile	Thr	Ile	Ile
	210					215					220				
Lys	Met	His	Ser	Ala	Ser	Gly	His	Gln	Lys	Ala	Met	Ser	Thr	Cys	Ala
225				230						235					240
Ser	His	Phe	Thr	Ala	Val	Phe	Ile	Phe	Tyr	Gly	Thr	Val	Ile	Phe	Met
			245						250					255	
Tyr	Leu	Gln	Pro	Ser	Ser	Ser	His	Ala	Met	Asp	Thr	Asp	Lys	Thr	Val





<210> 2192  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 2192  
 Ile Asn Leu Val Glu Asn Ile Ser Glu Val Thr Glu Phe Ile Leu Val  
 1 5 10 15  
 Gly Ile Thr Asp Ala Pro Glu Leu Leu Ile Pro Leu Phe Ile Ile Phe  
 20 25 30  
 Thr Leu Ile Tyr Leu Ile Ala Leu Phe Gly Asn Leu Gly Met Ile Met  
 35 40 45  
 Leu Ile Leu Leu Asp Ser Arg Leu His Ser Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Cys Asn Leu Pro Leu Val Asp Cys Val Tyr Ala Ser Ala Ile Thr Pro  
 65 70 75 80  
 Lys Val Met Glu Gly Phe Leu Thr Gly Asn Lys Ile Ile Ser Tyr Asn  
 85 90 95  
 Ala Cys Gly Ala Gln Met Phe Phe Phe Val Ala Phe Gly Ala Ile Glu  
 100 105 110  
 Ser Leu Ile Leu Ala Ser Met Ala Tyr Asp Cys Gln Ala Gly Ala Lys  
 115 120 125  
 Leu Leu His Tyr Thr Thr Ile Met Thr Ser Ser Thr Cys Ile Leu Ile  
 130 135 140  
 Val Thr Cys Cys Tyr Met Cys Gly Ile Leu Gln Ser Ser Val His Val  
 145 150 155 160  
 Ala Leu Ala Phe Cys Leu Phe Phe Cys His Ser Asn Met Ile Asn His  
 165 170 175  
 Phe Ser Cys Asp Ile Pro Pro Leu Leu Glu Ile Ser Arg Ser Asp Thr  
 180 185 190  
 His Thr Asn Gly Ile Thr Pro Leu Ile Leu Ala Thr Leu Asp Leu Val  
 195 200 205  
 Phe Thr Leu Leu Val Ile Leu Asn Thr Tyr Leu Leu Ile Phe Ile Ala  
 210 215 220  
 Ile Leu Arg Met His Ser Ala Glu Ala Gln Arg Lys Asp Phe Ser Thr  
 225 230 235 240  
 Arg Val Ser His Leu Ile Thr Ala Ser Ile Phe Phe Gly Ser Leu Ile  
 245 250 255  
 Phe Met Tyr Leu Gln Pro Ser Ser Ser His Ser Pro Glu Ala Asp Lys  
 260 265 270  
 Ile Ala Ser Val Phe Tyr Thr Met Val Ile Pro Ile Met Phe Asn Pro  
 275 280 285  
 Val Ala Tyr Ser Leu Arg Asn Ile Glu Asp Lys Cys Ala Phe Lys Lys  
 290 295 300  
 Val Val Gly Lys Leu Arg Thr Ser Leu His Ser Val Asn  
 305 310 315

<210> 2193  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (235)...(261)  
 <223> Any amino acid

<400> 2193

Met	Glu	Asn	Ile	Ser	Glu	Val	Thr	Glu	Phe	Ile	Leu	Val	Gly	Leu	Thr
1				5					10					15	
Asp	Ala	Pro	Glu	Leu	Gln	Ile	Pro	Leu	Phe	Ile	Ile	Phe	Thr	Leu	Ile
			20					25					30		
Tyr	Leu	Ile	Ala	Leu	Phe	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu	Ile	Leu
		35					40					45			
Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Cys	Asn	Leu
	50					55					60				
Ser	Val	Val	Asp	Cys	Val	Tyr	Ala	Ser	Ala	Ile	Thr	Pro	Lys	Val	Ile
65					70					75					80
Glu	Gly	Phe	Leu	Thr	Gly	Ser	Lys	Thr	Ile	Ser	Leu	Asn	Gly	Cys	Ala
				85					90					95	
Ala	Gln	Met	Phe	Phe	Phe	Val	Ala	Phe	Ile	Ala	Ile	Glu	Ser	Leu	Ile
			100					105					110		
Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	His	Ala	Ala	Val	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Thr	Thr	Ile	Met	Thr	Ser	Thr	Thr	Cys	Ile	Leu	Ile	Val	Thr
	130					135					140				
Cys	Cys	Tyr	Met	Cys	Gly	Ile	Leu	Gln	Ser	Ser	Val	His	Val	Ala	Leu
145					150					155					160
Ala	Phe	Cys	Leu	Ser	Phe	Cys	His	Ser	Asn	Val	Ile	Asn	His	Phe	Phe
				165					170					175	
Cys	Asp	Ile	Pro	Pro	Leu	Leu	Asp	Ile	Ser	Cys	Ser	Asp	Thr	His	Thr
			180					185					190		
Asn	Glu	Ile	Thr	Leu	Leu	Val	Leu	Ala	Thr	Leu	Asp	Val	Val	Phe	Thr
		195					200					205			
Leu	Leu	Val	Ile	Leu	Asn	Thr	Tyr	Leu	Leu	Ile	Phe	Ile	Ala	Ile	Leu
	210					215					220				
Arg	Met	Arg	Ser	Ala	Glu	Ala	Gln	Arg	Lys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
225					230					235					240
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Xaa	Xaa	Xaa	Xaa	Xaa
				245						250					255
Xaa	Xaa	Xaa	Xaa	Xaa	Met	Asp	Thr	Asp	Lys	Ile	Ala	Ser	Val	Phe	Tyr
			260					265					270		
Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Val	Val	Tyr	Ser	Leu	Arg	Asn
		275					280						285		
Lys	Glu	Val	Lys	Asn	Ala	Phe	Lys	Lys	Val	Val	Glu	Arg	Leu	Met	Ser
	290					295					300				
Ser	Phe	His	Leu	Val	His										
305					310										

<210> 2194

<211> 293

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (202)...(215)

<223> Any amino acid

<400> 2194

Met	Gly	Asn	Asn	Thr	Asp	Val	Thr	His	Phe	Leu	Leu	Leu	Gly	Leu	Thr
1				5					10					15	

Asp Asp Pro Glu Leu Gln Leu Pro Leu Phe Met Ile Phe Leu Ile Ile  
 20 25 30  
 Tyr Thr Ile Thr Leu Val Gly Asn Leu Gly Ile Ile Leu Leu Ile Phe  
 35 40 45  
 Leu Asp Ser Ser Leu His Ser Pro Met Tyr Phe Phe Leu Gly Asn Leu  
 50 55 60  
 Ser Leu Val Asp Phe Cys Tyr Ser Ser Asp Val Thr Pro Arg Val Met  
 65 70 75 80  
 Thr Gly Leu Leu Ile Gly Asp Lys Val Ile Ser Tyr Asn Gly Cys Ala  
 85 90 95  
 Ala Gln Met Phe Phe Phe Val Ala Phe Ala Thr Val Glu Asn Phe Leu  
 100 105 110  
 Leu Ala Ser Met Ala Tyr Asp Arg Tyr Ala Ala Val Cys Lys Pro Leu  
 115 120 125  
 His Tyr Ala Thr Thr Met Thr Ser Gly Val Cys Val Cys Leu Ser Ile  
 130 135 140  
 Gly Ala Tyr Thr Cys Gly Phe Leu Ile Ala Ser Ile His Ile Gly Asp  
 145 150 155 160  
 Thr Phe Ser Leu Ser Phe Cys Gly Ser Asn Val Val His His Phe Phe  
 165 170 175  
 Cys Asp Ile Pro Ala Val Met Ile Leu Ser Cys Ser Asp Arg His Val  
 180 185 190  
 Ser Glu Leu Val Leu Phe Tyr Val Gly Xaa Xaa Xaa Xaa Xaa Xaa  
 195 200 205  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val Glu Leu Ile Ser Leu Ile Ile Val  
 210 215 220  
 Phe Cys His Leu Pro Ile Lys Phe Gln Asn Gly Phe His Ile Ser Ala  
 225 230 235 240  
 Cys Gln His Arg Ser Ile Glu Lys Gly Leu Tyr Ile Gln Glu Ile Met  
 245 250 255  
 Arg Ile Phe Leu Ser Phe Lys Asn Thr Ser Val Lys Ile Met Cys Ile  
 260 265 270  
 Leu Phe Trp Met Ile Cys Met Ser Ser Tyr Ser Gln Asp Asn Val Glu  
 275 280 285  
 Lys Asp Phe Lys Asn  
 290

<210> 2195  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2195  
 Met Glu Asn Asn Thr Glu Val Thr His Phe Leu Leu Leu Gly Leu Thr  
 1 5 10 15  
 Asp Asp Pro Glu Leu Gln Leu Pro Leu Phe Met Ile Leu Leu Ile Ile  
 20 25 30  
 Tyr Thr Ile Thr Leu Val Gly Asn Leu Gly Lys Ile Leu Leu Ile Phe  
 35 40 45  
 Leu Asp Ser Cys Leu His Thr Pro Met Tyr Phe Phe Leu Gly Asn Leu  
 50 55 60  
 Ser Leu Val Asp Phe Cys Tyr Ser Ser Asp Val Thr Pro Lys Val Met  
 65 70 75 80  
 Ser Gly Leu Leu Lys Gly Asp Lys Val Ile Ser Tyr Asn Gly Cys Ala  
 85 90 95  
 Ala Gln Met Phe Phe Phe Val Ala Phe Ala Thr Val Glu Asn Phe Leu

			100					105				110					
Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Lys	Pro	Leu		
		115					120					125					
His	Tyr	Ala	Thr	Thr	Met	Thr	Ser	Gly	Val	Cys	Val	Cys	Leu	Ser	Ile		
	130					135					140						
Gly	Ser	Tyr	Ala	Cys	Gly	Phe	Leu	Ile	Ala	Ser	Ile	His	Ile	Gly	Asp		
145				150					155						160		
Thr	Phe	Asn	Leu	Ser	Phe	Cys	Arg	Ser	Asn	Val	Val	His	His	Phe	Phe		
			165					170						175			
Cys	Asp	Ile	Pro	Ala	Val	Met	Ile	Leu	Ser	Cys	Ser	Asp	Arg	His	Val		
		180					185					190					
Ser	Glu	Leu	Val	Leu	Phe	Tyr	Val	Gly	Ser	Phe	Ser	Ile	Phe	Phe	Leu		
	195					200						205					
Leu	Ser	Leu	Val	Ile	Cys	Ile	Ser	Tyr	Ile	Phe	Ile	Phe	Ile	Thr	Ile		
	210				215						220						
Phe	Lys	Met	His	Ser	Asn	Ala	Gly	Tyr	Gly	Lys	Ala	Val	Ser	Thr	Cys		
225				230					235						240		
Ala	Ala	His	Phe	Thr	Ala	Val	Ser	Ile	Phe	Tyr	Gly	Thr	Gly	Ile	Phe		
			245					250						255			
Met	Tyr	Leu	Gln	Pro	Ser	Ser	Ser	His	Ser	Met	Asp	Thr	Asp	Lys	Ile		
		260					265						270				
Thr	Ser	Val	Phe	Tyr	Thr	Met	Ile	Ile	Pro	Met	Leu	Asn	Pro	Leu	Val		
	275					280						285					
Tyr	Ser	Met	Arg	Asn	Lys	Glu	Val	Lys	Arg	Ala	Phe	Thr	Asn	Val	Phe		
	290				295						300						
His	Lys	Ala	Lys														
305																	

<210> 2196  
 <211> 289  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (151)...(154)  
 <223> Any amino acid

<221> VARIANT  
 <222> (156)...(157)  
 <223> Any amino acid

<400> 2196  
 Met Thr Pro Leu Lys Asn Trp Thr Glu Val Thr His Phe Leu Leu Leu  
 1 5 10 15  
 Gly Leu Thr Asp Asp Pro Gly Leu Gln Leu Pro Leu Phe Ile Ile Phe  
 20 25 30  
 Leu Leu Ile Tyr Ile Phe Thr Leu Val Gly Asn Leu Gly Leu Ile Leu  
 35 40 45  
 Leu Ile Leu Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Gly Asn Leu Ser Leu Val Asp Val Phe Tyr Ser Ser Ala Ile Thr Pro  
 65 70 75 80  
 Lys Val Met Ala Gly Leu Leu Leu Gly Asp Lys Ile Ile Ser Tyr Asn  
 85 90 95  
 Ser Cys Ala Ala Gln Met Phe Val Phe Ala Thr Phe Ala Thr Val Glu



Asn	Glu	Met	Ile	Leu	Ile	Leu	Val	Ser	Ser	Phe	His	Ile	Ile	Phe	Val
		195					200					205			
Phe	Leu	Val	Ile	Leu	Ile	Ser	Tyr	Leu	Leu	Ile	Phe	Leu	Tyr	Ile	Leu
	210					215					220				
Lys	Met	His	Ser	Ser	Glu	Gly	Tyr	His	Lys	Ala	Phe	Ser	Thr	Cys	Ala
225					230					235					240
Ser	His	Val	Thr	Ala	Val	Phe	Thr	Phe	Tyr	Gly	Thr	Val	Thr	Ile	Val
				245					250					255	
Tyr	Leu	Lys	Pro	Ser	Ala	Asn	His	Ser	Ile	Asp	Thr	Asp	Lys	Phe	Val
			260					265					270		
Ser	Val	Ile	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Met	Val	Tyr
		275					280					285			
Ser	Leu	Thr	Asn	Lys	Glu	Val	Lys	Asn	Ala	Leu	Lys	Asn	Ile	Phe	Gln
	290					295					300				
Lys	Ala	Lys	Leu	Tyr	Val	Tyr	Met	Leu	Tyr						
305						310									

<210> 2198  
 <211> 369  
 <212> PRT  
 <213> Mus musculus

<400> 2198

Met	Thr	Met	Met	Glu	Asn	Arg	Thr	Glu	Val	Thr	Gln	Phe	Ile	Leu	Ser
1				5					10					15	
Arg	Leu	Thr	Asp	Asp	Pro	Ser	Leu	Gln	Leu	Pro	Leu	Phe	Ile	Thr	Phe
			20					25				30			
Leu	Leu	Ile	Tyr	Ile	Leu	Ile	Leu	Gly	Met	Ile	Leu	Leu	Phe	Ile	Leu
		35					40					45			
Asp	Ser	Trp	Leu	Tyr	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Pro	Ser
	50					55					60				
Leu	Gly	Asp	Leu	Ser	Tyr	Ser	Ser	Tyr	Ile	Thr	Pro	Lys	Val	Met	Asp
65					70					75					80
Gly	Ser	Leu	Ile	Gly	Asp	Asn	Val	Ser	Leu	Ser	Tyr	Asn	Asp	Cys	Ala
			85						90					95	
Asp	Gln	Met	Phe	Phe	Ala	Ala	Gly	Phe	Ala	Ser	Val	Glu	Asn	Tyr	Leu
		100						105					110		
Ala	Ser	Ala	Gly	Tyr	Asp	Cys	Tyr	Ala	Lys	Leu	Cys	Lys	Leu	Leu	His
		115					120					125			
His	Ala	Thr	Leu	Ile	Thr	Lys	Gly	Val	Phe	Val	Tyr	Ile	Ile	Ile	Asn
	130					135					140				
Cys	Tyr	Ile	Phe	Asp	Phe	Met	Lys	Asp	Phe	Phe	Val	Val	Val	Phe	Leu
145					150					155					160
Arg	Gln	Gly	Phe	Ser	Val	Pro	Leu	Ser	Trp	Asn	Ser	Leu	Cys	Arg	Pro
			165						170					175	
Gly	Trp	Pro	Gln	Thr	Leu	Lys	Ser	Thr	Cys	Leu	Cys	Leu	Pro	Ser	Thr
		180						185					190		
Gly	Ile	Lys	Gly	Val	Cys	His	His	Cys	Leu	Ser	Met	Asn	Glu	Phe	Leu
	195						200					205			
Phe	Ile	Gly	Asp	Thr	Leu	Tyr	Gln	Phe	Ser	Phe	Tyr	Phe	Cys	Lys	Phe
	210					215					220				
Asn	Val	Ile	Tyr	His	Leu	Phe	Phe	Tyr	Met	Pro	Ala	Ile	Met	Tyr	Val
225					230					235					240
Ser	Ser	Asp	Arg	His	Val	Asn	Glu	Leu	Val	Ser	Val	Cys	Leu	Ala	Ser
			245						250					255	
Phe	Asn	Ile	Phe	Phe	Cys	Ser	His	Asn	Tyr	Leu	Leu	Ser	His	Ile	Ile





Arg	Phe	Val	Ser	Val	Phe	Tyr	Thr	Val	Leu	Ile	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Ile	Lys	Asp	Ala	Gly	Lys	Arg
	290					295					300				
Leu	Gln	Lys	Lys	Leu	Gly	Cys	Cys								
305					310										

<210> 2200  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 2200

Met	Ala	Gly	Gly	Arg	Asn	Ser	Thr	Val	Val	Thr	Arg	Phe	Ile	Leu	Leu
1				5				10						15	
Gly	Phe	Ser	Asp	Gln	Pro	Gln	Met	Lys	Ile	Phe	Leu	Phe	Met	Leu	Phe
			20					25					30		
Leu	Gly	Ile	Tyr	Ile	Leu	Thr	Leu	Ala	Trp	Asn	Leu	Ser	Leu	Ile	Thr
	35						40					45			
Leu	Ile	Arg	Met	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Ser	Asn	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Ser	Ser	Ser	Thr	Ala	Pro
65					70				75						80
Lys	Met	Leu	Ser	Asp	Ile	Val	Thr	Asp	Lys	Asn	Thr	Ile	Ser	Phe	Leu
				85					90					95	
Gly	Cys	Ala	Thr	Gln	Tyr	Phe	Val	Phe	Cys	Gly	Met	Gly	Leu	Thr	Glu
			100					105					110		
Cys	Leu	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Thr	Ala	Val	Cys
			115				120					125			
Asn	Pro	Leu	Leu	Tyr	Met	Ala	Leu	Met	Ser	His	Thr	Leu	Cys	Leu	Lys
	130					135					140				
Leu	Val	Ala	Gly	Ala	Tyr	Met	Gly	Gly	Phe	Leu	Ser	Ser	Leu	Ile	Ala
145					150				155						160
Thr	Cys	Ser	Ile	Tyr	Gln	His	Asp	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asn
			165					170						175	
His	Phe	Phe	Cys	Asp	Leu	Pro	Pro	Val	Leu	Ala	Leu	Ala	Cys	Ser	Asp
			180					185					190		
Ile	Phe	Thr	Ser	Gln	Val	Val	Thr	Phe	Ile	Leu	Gly	Val	Ile	Val	Gly
	195						200					205			
Val	Met	Ser	Val	Leu	Val	Val	Leu	Ile	Ser	Tyr	Gly	Tyr	Ile	Ile	Ala
	210					215					220				
Ala	Val	Leu	Arg	Ile	Asn	Ser	Ala	Lys	Gly	Arg	Thr	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Ser	Ala	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Ser	Gly
				245					250					255	
Leu	Phe	Met	Tyr	Met	Arg	Pro	Asn	Ser	Ser	Tyr	Ser	Leu	Gly	Gln	Asp
			260				265						270		
Lys	Val	Ala	Ser	Val	Phe	Tyr	Ala	Val	Val	Val	Pro	Met	Met	Asn	Pro
	275						280					285			
Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Asn	Ala	Val	Arg	Lys
	290					295					300				
Ala	Val	Glu	Arg	Asp	Ser	Met	Leu	Ser	His	Gly	Tyr	Ser	Phe	Phe	
305					310					315					

<210> 2201

<211> 294  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (158)...(164)  
 <223> Any amino acid

<400> 2201  
 Val Ile Ile Tyr Pro Val Phe Thr Glu Leu Val Cys Pro Ser Pro Leu  
 1 5 10 15  
 Asp Glu Lys Leu Ser Arg Glu Ala Ile Leu Phe Ala Tyr Met Met Leu  
 20 25 30  
 Ser Thr Pro Pro Leu Tyr Val Ile Ser Lys Ile Ser Leu Ser Pro Thr  
 35 40 45  
 Ala Phe Ile Pro Ser Ser Leu Ser His Ala Ser Cys Ser Phe Tyr Ala  
 50 55 60  
 Gly Lys Ala Arg Ala Gln Asn Cys Cys Arg Glu Asn Phe Gly Phe Phe  
 65 70 75 80  
 Lys Asn Thr Asp Lys Leu Ser Glu Tyr Ile Phe Val Ser Ile Pro Asp  
 85 90 95  
 Val Gly Tyr Trp Gly Ala Ser Gly Cys Pro His Gln Leu Thr Thr Leu  
 100 105 110  
 Ser Ser Ala Leu Ala Gly Val Ser Tyr Leu Pro Ala Glu Asp Ser Leu  
 115 120 125  
 Cys Leu Glu Phe Trp Gly Leu Leu Arg Glu Phe Glu Asn Thr Asn Ala  
 130 135 140  
 Glu Gly Leu Ala Ala Val Val Pro Leu Gln Val Leu Leu Xaa Xaa Xaa  
 145 150 155 160  
 Xaa Xaa Xaa Xaa Pro Leu Ser Cys Ser Asp Pro Phe Ile Ser Gln Leu  
 165 170 175  
 Val Leu Phe Leu Ala Ala Leu Phe Val Gly Phe Gly Ser Phe Leu Val  
 180 185 190  
 Ile Ile Phe Ser Tyr Val Phe Ile Ala Val Ser Ile Leu Lys Val Ala  
 195 200 205  
 Ser Phe Lys Gly Arg Val Lys Ala Phe Lys Thr Cys Gly Ser His Leu  
 210 215 220  
 Ala Ala Val Thr Leu Phe Tyr Gly Thr Val Phe Ser Val Tyr Met His  
 225 230 235 240  
 His Ser Ser Gln His Ser Thr Lys Gln Asp Lys Val Leu Ser Val Val  
 245 250 255  
 Tyr Thr Ile Leu Ile Pro Met Val Asn Pro Leu Ile Tyr Ser Leu Arg  
 260 265 270  
 Asn Thr Glu Ile Lys Glu Ala Leu Lys Arg Val Leu Lys Lys Ala Ala  
 275 280 285  
 His Leu Pro Gln Lys Ala  
 290

<210> 2202  
 <211> 302  
 <212> PRT  
 <213> Mus musculus

<400> 2202  
 Phe Ser Trp Gly Phe Pro Gly Ser Trp Glu Glu Gln Ile Phe Leu Phe

1				5				10				15			
Val	Leu	Phe	Leu	Val	Phe	Tyr	Val	Leu	Thr	Leu	Leu	Gly	Asn	Gly	Ala
			20					25					30		
Ile	Ile	Cys	Ala	Val	Arg	Cys	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr
		35					40					45			
Phe	Leu	Leu	Gly	Asn	Phe	Ala	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Ser	Ser
	50					55					60				
Thr	Thr	Pro	Asn	Thr	Leu	Ala	Asn	Ile	Leu	Ser	Lys	Thr	Lys	Thr	Ile
65					70					75					80
Ser	Phe	Ser	Gly	Cys	Phe	Leu	Gln	Phe	Tyr	Phe	Phe	Phe	Ser	Leu	Gly
				85					90					95	
Thr	Thr	Glu	Cys	Phe	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Leu
			100					105					110		
Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Thr	Ile	Met	Thr	Arg	Arg	Leu
		115					120					125			
Cys	Cys	Ile	Leu	Val	Ser	Ser	Cys	Trp	Leu	Ile	Gly	Phe	Leu	Gly	Tyr
	130					135					140				
Pro	Ile	Pro	Val	Phe	Ser	Ile	Ser	Gln	Leu	Pro	Phe	Cys	Gly	Ser	Asn
145					150					155					160
Ile	Ile	Asp	His	Phe	Leu	Cys	Asp	Met	Asp	Pro	Leu	Met	Ala	Leu	Ser
				165					170					175	
Cys	Val	Pro	Ala	Pro	Ile	Thr	Lys	Leu	Met	Leu	Tyr	Val	Gln	Asn	Ser
			180					185					190		
Leu	Phe	Leu	Phe	Phe	Thr	Ile	Ala	Tyr	Ile	Leu	Gln	Ser	Tyr	Ile	Leu
	195						200					205			
Leu	Leu	Lys	Ala	Ile	Phe	Gln	Val	Pro	Ser	Ala	Ala	Gly	Arg	Arg	Lys
	210					215					220				
Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Val	Val	Val	Ser	Leu	Phe	Tyr
225					230					235					240
Gly	Thr	Val	Met	Ile	Met	Tyr	Met	Ser	Pro	Thr	Tyr	Gly	Ile	Ser	Thr
				245					250					255	
Leu	Met	Gln	Lys	Ile	Leu	Thr	Leu	Val	Tyr	Ser	Val	Met	Thr	Pro	Leu
			260					265					270		
Phe	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Leu	Ala
		275					280					285			
Leu	Arg	Lys	Val	Leu	Leu	Gly	Met	Arg	Ile	Val	Lys	Asn	Ile		
	290					295					300				

<210> 2203  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (177)...(183)  
 <223> Any amino acid

<400> 2203  
 Met Lys Thr Leu Asn Ser Pro Ser Asn Ser Ser Thr Ile Thr Gly Phe  
 1 5 10 15  
 Ile Leu Leu Gly Phe Pro Cys Pro Arg Glu Gly Gln Ile Leu Leu Phe  
 20 25 30  
 Val Thr Phe Phe Val Val Tyr Leu Leu Ile Leu Met Gly Asn Ala Ser  
 35 40 45  
 Ile Ile Cys Ala Val Tyr Cys Asp Gln Arg Leu His Thr Pro Met Tyr

50		55		60											
Leu	Leu	Leu	Ala	Asn	Phe	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Thr	Ser
65				70					75						80
Thr	Val	Pro	Asn	Met	Leu	Ala	Asn	Phe	Leu	Ser	Asp	Thr	Lys	Val	Ile
			85						90					95	
Ser	Phe	Ser	Gly	Cys	Phe	Leu	Gln	Phe	Tyr	Phe	Phe	Phe	Ser	Phe	Gly
			100					105					110		
Ser	Thr	Glu	Cys	Phe	Phe	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Leu
		115					120					125			
Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Ser	Leu	Met	Thr	Arg	His	Leu
	130					135					140				
Cys	Asn	Thr	Leu	Val	Ile	Ser	Cys	Trp	Val	Leu	Gly	Phe	Leu	Trp	Phe
145					150					155					160
Pro	Val	Pro	Ile	Ile	Ile	Ile	Ser	Gln	Met	Ser	Phe	Trp	Trp	Val	Gln
			165					170						175	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ile	Ile	Asp	His	Phe	Leu	Cys	Asp	Pro
		180					185					190			
Gly	Pro	Leu	Leu	Ala	Leu	Ala	Cys	Ser	Arg	Ala	Pro	Leu	Met	Glu	Val
	195					200					205				
Phe	Trp	Thr	Ile	Ile	Met	Ser	Ile	Leu	Leu	Val	Ile	Pro	Phe	Leu	Phe
	210				215						220				
Ile	Met	Gly	Ser	Tyr	Ile	Leu	Val	Leu	Arg	Thr	Val	Phe	Arg	Leu	Pro
225				230					235						240
Ser	Arg	Asp	Gly	Gln	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Val
			245					250					255		
Thr	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ser	Val	Met	Ile	Met	Tyr	Met	Ser
		260					265					270			
Pro	Thr	Ser	Gly	His	Glu	Ala	Gly	Met	Gln	Lys	Ile	Val	Thr	Leu	Phe
	275					280						285			
Tyr	Ser	Val	Gly	Thr	Pro	Leu	Leu	Asn	Pro	Val	Ile	Tyr	Ser	Leu	Arg
	290				295				300						
Asn	Lys	Asp	Met	Lys	Asn	Ala	Leu	Gln	Lys	Ile	Leu	Arg	Thr		
305				310				315							

<210> 2204  
 <211> 142  
 <212> PRT  
 <213> Mus musculus

<400> 2204

Met	Asn	Val	Ser	Glu	Gly	Ser	Thr	Val	Thr	Tyr	Phe	Val	Leu	Leu	Gly
1				5					10				15		
Phe	Pro	Gly	Pro	Trp	Lys	Ile	Gln	Ile	Thr	Leu	Phe	Ser	Leu	Ile	Leu
		20					25					30			
Leu	Leu	Tyr	Met	Ile	Thr	Leu	Thr	Gly	Asn	Met	Ala	Ile	Ile	Cys	Ala
	35				40						45				
Val	Arg	Trp	Asn	Gln	Gln	Leu	His	Thr	Pro	Met	Tyr	Met	Phe	Leu	Ala
	50				55				60						
Asn	Phe	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Thr	Cys	Thr	Val	Pro	Asn
65				70					75					80	
Met	Leu	Val	Asn	Ser	Leu	Ser	Lys	Thr	Lys	Thr	Ile	Ser	Phe	Thr	Gly
		85						90					95		
Cys	Phe	Thr	Gln	Phe	Tyr	Phe	Phe	Phe	Ser	Leu	Gly	Thr	Thr	Glu	Cys
		100					105					110			
Phe	Phe	Leu	Cys	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Thr	Ile	Cys	Tyr
	115					120						125			

Pro	Leu	His	Tyr	Pro	Ser	Ile	Met	Thr	Arg	Gln	Phe	Cys	Ser
130						135					140		

<210> 2205  
 <211> 304  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (81)...(90)  
 <223> Any amino acid

Met	Asn	Ser	Ser	Ser	Thr	Ser	Asp	Phe	Ile	Leu	Leu	Gly	Leu	Ser	Thr
1				5					10					15	
Asn	Pro	Trp	Met	Gln	Lys	Pro	Leu	Phe	Gly	Ile	Phe	Ile	Ile	Met	Tyr
		20						25					30		
Leu	Val	Thr	Val	Met	Gly	Asn	Val	Leu	Ile	Ile	Leu	Val	Ile	Arg	Ser
		35				40						45			
Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu	Ser
	50					55					60				
Phe	Met	Asp	Ile	Cys	Phe	Thr	Thr	Val	Ile	Val	Pro	Lys	Met	Leu	Val
65					70					75					80
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Leu	Val	Gln	Met	Tyr
			85						90					95	
Phe	Phe	Leu	Ala	Leu	Ala	Asn	Thr	Asp	Ser	Tyr	Leu	Leu	Ala	Ser	Met
			100					105					110		
Ala	Ile	Asp	Arg	Leu	Val	Ala	Ile	Cys	Asn	Pro	Leu	His	Tyr	Asp	Val
		115					120					125			
Val	Met	Arg	Ser	Gln	Arg	Cys	Leu	Leu	Met	Leu	Leu	Gly	Ser	Cys	Thr
	130					135					140				
Ile	Ser	His	Leu	His	Ala	Leu	Phe	Arg	Val	Leu	Leu	Met	Ser	Arg	Leu
145					150					155					160
Ser	Phe	Cys	Ala	Ser	His	Val	Ile	Lys	His	Phe	Phe	Cys	Asp	Thr	Gln
			165						170					175	
Pro	Val	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr	Ser	Ser	Ser	Gln	Ile	Val
		180						185					190		
Val	Met	Thr	Glu	Thr	Leu	Ala	Val	Ile	Val	Thr	Pro	Phe	Leu	Cys	Ile
	195						200					205			
Leu	Phe	Ser	Tyr	Met	Lys	Ile	Ile	Val	Thr	Val	Leu	Arg	Ile	Pro	Ser
	210					215					220				
Ala	Ala	Gly	Lys	Trp	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr
225					230					235					240
Val	Val	Ala	Leu	Phe	Tyr	Gly	Ser	Val	Ile	Tyr	Val	Tyr	Phe	Arg	Pro
			245						250					255	
Leu	Ser	Met	Tyr	Ser	Val	Val	Lys	Asp	Arg	Ile	Ala	Thr	Val	Met	Tyr
		260						265					270		
Thr	Val	Val	Thr	Pro	Met	Met	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn
	275						280					285			
Lys	Asp	Met	Lys	Arg	Gly	Leu	Arg	Lys	Leu	Lys	Asp	Arg	Leu	His	Ser
	290					295					300				

<210> 2206  
 <211> 297

<212> PRT  
<213> Mus musculus

<220>  
<221> VARIANT  
<222> (255)...(285)  
<223> Any amino acid

<400> 2206  
Met Leu Arg Glu Asn Gln Ser His Met Thr Glu Phe Leu Leu Leu Gly  
1 5 10 15  
Leu Thr Ser Asn Pro Lys Gln Gln Val Trp Leu Phe Ala Ser Phe Leu  
20 25 30  
Ala Met Tyr Leu Val Asn Val Ile Gly Asn Ser Val Ile Ile Ala Ser  
35 40 45  
Ile Gln Arg Asp Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
50 55 60  
Asn Leu Ser Leu Val Asp Ile Cys Phe Thr Thr Val Ile Val Pro Gln  
65 70 75 80  
Met Leu Val Asn Leu Leu Thr Gln Arg Lys Thr Ile Leu Phe Ala Gln  
85 90 95  
Cys Leu Thr Gln Met Tyr Phe Phe Val Ala Phe Gly Ile Thr Asp Ser  
100 105 110  
Phe Leu Leu Ala Ala Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Asn  
115 120 125  
Pro Leu His Tyr Asn Thr Val Met Ser Pro Arg Arg Cys Arg Leu Leu  
130 135 140  
Val Val Ala Ser Trp Ala Val Ser His Leu His Ser Leu Thr His Thr  
145 150 155 160  
Ile Leu Met Gly Arg Leu Ser Phe Cys Gly Pro Asn Val Ile His His  
165 170 175  
Phe Phe Cys Asp Val Gln Pro Leu Leu Thr Leu Ser Cys Ser Asp Thr  
180 185 190  
Ser Ile Asn Glu Leu Leu Ala Phe Thr Glu Gly Ser Val Val Ile Met  
195 200 205  
Ser Pro Phe Ser Leu Leu Gly Ser Tyr Ile Tyr Ile Thr Arg Thr  
210 215 220  
Val Leu Arg Val Pro Ser Gly Glu Gly Arg Asp Lys Val Phe Ser Thr  
225 230 235 240  
Cys Gly Ser His Leu Thr Val Val Ala Leu Val Tyr Gly Thr Xaa Xaa  
245 250 255  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
260 265 270  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Met Lys Gln  
275 280 285  
Ala Leu Arg Lys Leu Ala Lys Arg Thr  
290 295

<210> 2207  
<211> 165  
<212> PRT  
<213> Mus musculus

<400> 2207  
Met Lys Phe Thr Glu Ile Arg Ala Glu Asp Asn Ala Ser Thr Val Thr  
1 5 10 15

Glu	Phe	Leu	Leu	Leu	Gly	Phe	Ser	Asp	Leu	Pro	Asn	Leu	Gln	Gly	Ile
		20						25					30		
Leu	Phe	Gly	Met	Phe	Ser	Ile	Ile	Tyr	Leu	Ile	Ile	Leu	Val	Gly	Asn
		35						40					45		
Ser	Phe	Ile	Ile	Val	Ile	Thr	Arg	Ile	Asp	Pro	Ala	Leu	Gln	Lys	Pro
		50						55					60		
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val
					70						75				80
Ser	Val	Thr	Leu	Pro	Arg	Ile	Leu	Phe	Ser	Ile	Ala	Ala	Gln	Glu	Arg
					85									95	
Lys	Ile	Ser	Val	Leu	Ser	Tyr	Ala	Thr	Gln	Leu	Cys	Phe	Phe	Leu	Met
			100						105					110	
Leu	Gly	Ala	Thr	Glu	Cys	Phe	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg
		115							120					125	
Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	His	Tyr	Pro	Leu	Val	Met	Asn	Pro
		130				135					140				
Thr	Lys	Cys	Thr	Gln	Leu	Ala	Ala	Ala	Ser	Trp	Leu	Gly	Gly	Ile	Pro
					150						155				160
Val	Gln	Ile	Gly	Gln											
				165											

<210> 2208  
 <211> 143  
 <212> PRT  
 <213> Mus musculus

Lys	Phe	Thr	Thr	Ser	Thr	Asp	Glu	Asp	Leu	Phe	Lys	Gln	Glu	Lys	Leu
				5					10					15	
Asn	Ala	Ser	Thr	Leu	Met	Glu	Phe	Thr	Leu	Leu	Gly	Phe	Ser	Asn	Val
			20						25					30	
Pro	His	Leu	Gln	Val	Leu	Phe	Met	Val	Phe	Leu	Phe	Met	Tyr	Met	Thr
		35						40						45	
Ile	Leu	Leu	Trp	Asn	Ser	Ile	Ile	Ile	Val	Leu	Ala	Lys	Thr	Asp	Pro
		50				55					60				
Ala	Leu	Gln	Thr	Pro	Ile	Tyr	Phe	Phe	Leu	Ser	Asn	Phe	Ser	Phe	Leu
					70						75				80
Glu	Ile	Cys	Tyr	Val	Thr	Val	Thr	Ile	Pro	Arg	Met	Leu	Met	Asp	Leu
					85					90				95	
Tyr	Thr	Leu	Lys	Gly	Asn	Ile	Ser	Val	Phe	Ala	Cys	Ala	Thr	Gln	Met
			100						105					110	
Tyr	Phe	Val	Leu	Met	Leu	Gly	Ala	Thr	Glu	Cys	Leu	Leu	Leu	Ala	Ala
		115					120							125	
Met	Ala	Tyr	Asp	Arg	Tyr	Val	Gly	Tyr	Leu	Pro	Pro	Ser	Pro	Ile	
		130					135					140			

<210> 2209  
 <211> 164  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (131)...(137)  
 <223> Any amino acid

<400> 2209

Met	Gln	Ser	Lys	Tyr	Val	Asn	Leu	Gln	Arg	Ala	Asn	Lys	Phe	Lys	Ile
1				5					10					15	
Thr	Asp	Thr	Asn	Leu	Ser	Val	Pro	Ile	Glu	Phe	Val	Leu	Leu	Gly	Phe
			20					25					30		
Ser	Asp	Ile	Pro	Gln	Leu	His	Trp	Phe	Leu	Phe	Gly	Ile	Phe	Phe	Phe
		35					40					45			
Ile	Tyr	Met	Ser	Ile	Leu	Leu	Gly	Asn	Gly	Leu	Ile	Ile	Leu	Ile	Thr
	50					55					60				
Arg	Val	Glu	Pro	Thr	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser	Asn
65					70					75					80
Leu	Ser	Phe	Leu	Glu	Ile	Cys	Tyr	Val	Ser	Val	Thr	Leu	Pro	Arg	Met
			85						90					95	
Leu	Met	Asp	Leu	Phe	Thr	Leu	Lys	Gly	Asn	Ile	Ser	Phe	Leu	Ala	Cys
			100					105					110		
Ala	Thr	Gln	Met	Cys	Leu	Phe	Leu	Ile	Leu	Gly	Gly	Thr	Glu	Cys	Phe
		115					120					125			
Leu	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Met	Met	Ile	Cys	Ala	Tyr	Cys
	130					135					140				
Val	Leu	Cys	Phe	Val	Gln	Leu	Ile	Cys	Leu	Gly	Gly	Leu	Leu	His	Ser
145					150					155					160
Gly	Ile	Gln	Lys												

<210> 2210

<211> 297

<212> PRT

<213> Mus musculus

<400> 2210

Ala	Arg	Glu	Ile	Ala	Pro	Ser	Leu	Asp	Glu	Phe	Ile	Phe	Leu	Gly	Ile
1				5					10					15	
Thr	Asn	Asn	Pro	Phe	Ile	Thr	Leu	Leu	Leu	Val	Tyr	Leu	Ile	Asn	Leu
			20					25					30		
Leu	Ala	Asn	Leu	Gly	Met	Ile	Ile	Leu	Thr	Arg	Val	Asp	Thr	Gln	Leu
		35					40					45			
His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	His	Leu	Ser	Phe	Cys	Asp	Leu
	50					55					60				
Cys	Tyr	Ser	Thr	Ala	Ile	Gly	Pro	Lys	Met	Leu	Val	Asn	Leu	Leu	Ala
65					70					75					80
Glu	Glu	Lys	Phe	Ile	Ser	Thr	Gly	Gly	Cys	Ala	Leu	Gln	Phe	Phe	Thr
			85						90					95	
Leu	Cys	Ala	Phe	Val	Asp	Ser	Glu	Cys	Leu	Leu	Leu	Ala	Val	Thr	Ala
			100					105					110		
Tyr	Asp	Arg	Tyr	Gln	Ala	Ile	Ser	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Asn
		115					120						125		
Met	Phe	Ser	Arg	Leu	Cys	Ser	Leu	Leu	Met	Ala	Gly	Val	Tyr	Leu	Val
	130					135					140				
Gly	Thr	Ala	Asp	Thr	Leu	Ile	His	Thr	Thr	Leu	Ala	Phe	Ser	Leu	Cys
145					150					155					160
Phe	Cys	Asp	Ile	Asn	Gln	Phe	Phe	Cys	Asp	Val	Pro	Ser	Leu	Val	Leu
			165						170					175	
Ile	Ser	Cys	Ser	Glu	Thr	Glu	Val	Asn	Glu	Ala	Ile	Ser	Thr	Ile	Leu
			180					185					190		
Phe	Ile	Glu	Leu	Asn	Ile	Ile	Ser	Gly	Leu	Leu	Val	Ser	Tyr	Cys	Tyr





Thr	Glu	Val	Lys	Gly	Ala	Leu	Arg	Arg	Ala	Leu	Trp	Thr
290						295					300	

<210> 2212  
 <211> 301  
 <212> PRT  
 <213> Mus musculus

<400> 2212

Met	Asn	Gln	Thr	Trp	Ile	Thr	Glu	Val	Ile	Leu	Leu	Gly	Phe	Gln	Val
1				5					10					15	
Asp	Pro	Ser	Leu	Glu	Met	Leu	Leu	Phe	Gly	Leu	Phe	Leu	Leu	Phe	Tyr
			20					25					30		
Cys	Leu	Thr	Leu	Met	Gly	Asn	Gly	Ile	Ile	Leu	Gly	Leu	Ile	Cys	Leu
		35				40						45			
Asp	Ala	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His	Leu	Ala
	50					55					60				
Ile	Val	Asp	Met	Ser	Tyr	Ala	Ser	Ser	Thr	Ala	Ala	Pro	Lys	Met	Leu
65					70					75					80
Thr	Asn	Met	Val	Met	His	Gln	Lys	Ser	Ile	Ser	Phe	Ala	Ser	Cys	Ile
				85					90					95	
Leu	Gln	Thr	Phe	Leu	Tyr	Leu	Ala	Phe	Ala	Val	Thr	Glu	Cys	Val	Ile
			100					105					110		
Leu	Val	Val	Met	Ser	Cys	Asp	Arg	Phe	Val	Val	Ile	Cys	His	Pro	Leu
		115				120						125			
Lys	Tyr	Thr	Leu	Ile	Met	Ser	Trp	Arg	Val	Phe	Val	Ile	Leu	Ala	Ala
	130					135					140				
Thr	Cys	Trp	Val	Phe	Ser	Phe	Leu	Leu	Ala	Ser	Leu	His	Thr	Lys	Leu
145					150					155					160
Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Pro	Gln	Asn	Val	Asn	His	Phe	Phe
				165				170						175	
Phe	Cys	Gln	Ile	Met	Ser	Val	Phe	Arg	Leu	Ala	Cys	Ala	Asp	Thr	Arg
			180					185					190		
Leu	Asn	Val	Ile	Leu	Phe	Ala	Gly	Ser	Val	Met	Val	Leu	Leu	Gly	Pro
	195					200						205			
Leu	Cys	Leu	Leu	Leu	Val	Ser	Tyr	Thr	Ile	Leu	Val	Val	Ile	Leu	Gly
	210					215					220				
Ile	His	Ser	Arg	Glu	Gly	Arg	Arg	Asn	Ser	His	Leu	Cys	Val	Val	Gly
225					230					235					240
Leu	Phe	Phe	Gly	Cys	Ala	Ile	Ser	Met	Tyr	Met	Val	Pro	Ser	Lys	His
				245					250					255	
Ser	Gln	Glu	Gln	Arg	Lys	Ile	Leu	Ser	Leu	Phe	His	Ser	Leu	Phe	Asn
			260					265					270		
Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Thr	Glu	Val	Lys
		275					280					285			
Ala	Ala	Leu	Arg	Ser	Val	Leu	Trp	Lys	Gln	Arg	Ser	Leu			
	290					295						300			

<210> 2213  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2213

Met	Val	Pro	Met	Glu	Arg	Asn	Val	Ser	Val	Glu	Ile	Ile	Phe	Ser	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5				10				15			
Leu	Gly	Phe	Thr	Asp	Tyr	Pro	Glu	Leu	Gln	Ile	Pro	Leu	Phe	Leu	Ile
			20					25					30		
Phe	Leu	Phe	Met	Tyr	Val	Ile	Thr	Val	Val	Gly	Asn	Leu	Gly	Met	Ile
		35					40					45			
Ala	Leu	Ile	Asn	Ile	Asn	Pro	Lys	Phe	His	Thr	Pro	Met	Phe	Phe	Leu
	50					55					60				
Ser	His	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Thr	Ile	Ile	Thr	Pro
65					70					75					80
Lys	Leu	Leu	Glu	Asn	Leu	Val	Leu	Ala	Asp	Lys	Thr	Ile	Leu	Tyr	Phe
				85					90					95	
Ser	Cys	Met	Phe	Gln	Tyr	Phe	Leu	Ser	Cys	Val	Ala	Val	Val	Ser	Glu
			100					105					110		
Ser	Tyr	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys
		115					120					125			
Asn	Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Pro	Arg	Leu	Cys	Ile	Leu
	130					135					140				
Leu	Val	Thr	Gly	Ser	Tyr	Ile	Trp	Ser	Ile	Phe	Ala	Pro	Leu	Ile	Leu
145					150					155					160
Leu	Cys	Tyr	Ala	Leu	Gln	Leu	Lys	Phe	Ser	Arg	Phe	Asn	Val	Ile	Asn
			165					170						175	
His	Phe	Phe	Cys	Glu	Tyr	Thr	Ala	Leu	Ile	Ala	Val	Ser	Ser	Ser	Asp
			180					185					190		
Ile	His	Ile	Pro	Ser	Leu	Leu	Leu	Phe	Cys	Phe	Ala	Thr	Phe	Asn	Glu
	195					200						205			
Val	Ser	Thr	Leu	Leu	Ile	Ile	Leu	Thr	Ser	Tyr	Val	Phe	Ile	Phe	Val
	210					215					220				
Thr	Val	Leu	Lys	Ile	Lys	Ser	Ala	Ser	Gly	Arg	Arg	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Ile	Thr	Ile	Phe	His	Gly	Thr	Ile
				245					250					255	
Leu	Ser	Leu	Tyr	Cys	Ile	Pro	Asn	Ser	Lys	Asn	Ser	Arg	Gln	Val	Val
			260				265						270		
Lys	Val	Ala	Ser	Val	Phe	Tyr	Thr	Val	Val	Asn	Pro	Met	Leu	Asn	Pro
		275					280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Ala	Phe	Gln	Lys
	290					295					300				
Leu	Val	Ser	Thr	Lys	Ile	Pro	Leu	Gln							
305					310										

<210> 2214

<211> 316

<212> PRT

<213> Mus musculus

<400> 2214

Met	Asn	His	Glu	Glu	Leu	Glu	Ser	Ile	Asp	Asn	Val	Ser	Thr	Val	Ile
1				5				10						15	
Gln	Phe	Val	Leu	Ile	Gly	Phe	Ser	Asp	Leu	Pro	Asn	Leu	Gln	Gly	Phe
			20					25					30		
Leu	Phe	Ala	Val	Phe	Ser	Val	Val	Tyr	Ile	Ile	Ile	Leu	Ile	Gly	Asn
		35					40					45			
Phe	Leu	Ile	Ile	Ile	Ile	Ile	Ser	Met	Asp	Gln	Ala	Leu	Gln	Lys	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val
65					70					75					80

Ser	Val	Thr	Val	Pro	Arg	Ile	Leu	Phe	Asn	Ile	Gly	Thr	Gln	Asn	Arg
				85					90					95	
Ser	Ile	Ser	Leu	Met	Ser	Cys	Ala	Thr	Gln	Met	Ser	Phe	Phe	Leu	Val
			100					105					110		
Phe	Gly	Thr	Thr	Glu	Ser	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	
		115				120					125				
Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Leu	Tyr	Pro	Leu	Ile	Met	Asn	Pro
	130					135					140				
Thr	Lys	Cys	Lys	Gln	Leu	Ala	Ala	Val	Ser	Trp	Leu	Gly	Gly	Met	Pro
145					150					155					160
Val	Gln	Ile	Gly	Gln	Thr	Cys	Gln	Ile	Phe	Ser	Met	Asn	Phe	Cys	Asn
				165					170					175	
Ser	Tyr	Lys	Ile	Asn	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Ile	Leu	Lys
			180					185					190		
Leu	Ala	Cys	Gly	Asp	Thr	Ser	Val	His	Glu	Leu	Ser	Val	Tyr	Val	Val
		195				200						205			
Leu	Met	Val	Val	Ala	Ala	Phe	Pro	Phe	Ile	Leu	Val	Leu	Ala	Ser	Tyr
	210					215					220				
Ser	Lys	Ile	Ile	Ala	Thr	Ile	Leu	Arg	Leu	Pro	Thr	Ala	Lys	Gly	Arg
225					230					235					240
Ala	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Met	Val	Val	Leu	Leu
				245					250					255	
Phe	Tyr	Gly	Ser	Ala	Thr	Val	Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Met	His
			260					265					270		
Ser	Pro	Gly	Thr	Asp	Lys	Leu	Leu	Ser	Leu	Phe	Tyr	Thr	Val	Val	Thr
		275				280						285			
Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile
	290					295					300				
Ser	Ala	Leu	Arg	Lys	Leu	Leu	Phe	Lys	Thr	Tyr	Tyr				
305					310						315				

<210> 2215  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2215

Met	Glu	Val	Gly	Asn	Cys	Ser	Ala	Thr	Glu	Phe	Leu	Phe	Leu	Gly	Ile
1				5					10					15	
Thr	Asn	Asn	Pro	Val	Ile	Lys	Val	Ile	Leu	Phe	Thr	Thr	Phe	Leu	Ile
			20					25					30		
Val	Tyr	Leu	Ile	Ile	Leu	Ile	Glu	Asn	Leu	Gly	Met	Ile	Ile	Leu	Ile
		35					40				45				
Arg	Met	Asn	His	Gln	Leu	His	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55				60					
Leu	Ser	Phe	Ser	Asp	Val	Cys	Tyr	Ser	Ser	Ala	Val	Gly	Pro	Lys	Met
65					70					75					80
Leu	Leu	Asp	Leu	Leu	Ala	Lys	Ser	Ser	Asn	Ser	Ile	Thr	Phe	Leu	Gly
				85					90					95	
Cys	Val	Leu	Gln	Phe	Phe	Ile	Phe	Cys	Ile	Phe	Thr	Asp	Val	Glu	Cys
			100					105				110			
Met	Leu	Leu	Ala	Met	Met	Ala	Phe	Asp	Arg	Tyr	Lys	Ala	Ile	Ser	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Ala	Val	Asp	Met	Ser	Ser	Lys	Val	Cys	Tyr	Gln	Leu
	130					135					140				
Leu	Ala	Val	Val	Tyr	Thr	Val	Ala	Ile	Val	Asp	Ala	Val	Val	His	Thr

145					150					155				160
Thr	Leu	Thr	Phe	Arg	Leu	Cys	Phe	Cys	Gly	Ser	Lys	Glu	Ile	Asn
				165					170					175
Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Tyr	Met	Leu	Ser	Cys	Ser	Asp
			180						185					190
Gln	Val	Asn	Glu	Leu	Ala	Leu	Phe	Thr	Val	Phe	Gly	Phe	Ile	Glu
		195					200					205		
Ser	Thr	Ile	Ser	Gly	Val	Leu	Val	Ser	Tyr	Cys	Tyr	Ile	Ile	Leu
	210					215					220			
Val	Leu	Lys	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Phe	Lys	Ala	Phe	Ser
225					230					235				240
Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Ala	Ile	Phe	Gln	Gly	Thr	Met
			245						250					255
Phe	Met	Tyr	Phe	Arg	Pro	Ser	Ser	Ser	Tyr	Ser	Leu	Asp	Gln	Asp
			260					265					270	
Met	Thr	Ser	Leu	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Val	Leu	Asn	Pro
		275				280						285		
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Leu	Gln	Lys
	290				295						300			
Lys	Thr	Lys	Thr	Trp	Phe									
305					310									

<210> 2216  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 2216

Met	Lys	Gln	Glu	Glu	Leu	Glu	Ser	Ile	Asp	Asn	Val	Ser	Thr	Val	Ile
1				5					10					15	
Gln	Phe	Val	Leu	Leu	Gly	Phe	Ser	Tyr	Leu	Pro	Ile	Leu	Gln	Glu	Phe
		20						25					30		
Leu	Phe	Ala	Val	Phe	Phe	Val	Val	Tyr	Ile	Ile	Ile	Leu	Ile	Gly	Asn
		35				40						45			
Phe	Leu	Ile	Ile	Leu	Val	Thr	Ser	Met	Asp	Ser	Ala	Leu	Gln	Lys	Pro
	50				55					60					
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val
65				70					75					80	
Arg	Ile	Leu	Phe	Asp	Ile	Glu	Lys	Gln	Asp	Arg	Arg	Ile	Ser	Leu	Met
			85					90					95		
Ser	Cys	Ala	Thr	Gln	Leu	Cys	Phe	Phe	Leu	Val	Phe	Gly	Thr	Thr	Glu
		100					105					110			
Cys	Leu	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
	115					120					125				
Asn	Pro	Leu	His	Tyr	Pro	Leu	Val	Met	Asn	Pro	Thr	Lys	Cys	Thr	Gln
	130				135					140					
Leu	Ala	Ala	Gly	Ser	Trp	Leu	Gly	Gly	Ile	Pro	Val	Gln	Ile	Gly	Gln
145				150					155					160	
Thr	Cys	Gln	Ile	Phe	Ser	Met	His	Phe	Cys	Asn	Ser	Asn	Gln	Ile	Glu
			165					170					175		
His	Phe	Phe	Cys	Asp	Ile	Pro	Ile	Ile	Leu	Lys	Leu	Ala	Cys	Gly	Asn
		180					185					190			
Thr	Val	His	Glu	Leu	Ser	Val	Tyr	Val	Glu	Gly	Val	Val	Ala	Ala	Phe
	195					200					205				
Pro	Phe	Ile	Leu	Val	Leu	Thr	Ser	Tyr	Ser	Lys	Ile	Ile	Ala	Met	Ile
	210				215					220					

Leu Arg Leu Pro Thr Ala Gln Gly Arg Ala Lys Ala Phe Ser Thr Cys  
 225 230 235 240  
 Ser Ser His Leu Leu Val Val Leu Leu Phe Tyr Gly Ser Ala Ala Val  
 245 250 255  
 Thr Tyr Leu Arg Pro Lys Ser Met His Ser Pro Val Thr Asp Lys Leu  
 260 265 270  
 Ile Ser Leu Phe Tyr Thr Thr Met Thr Pro Met Phe Asn Pro Leu Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Lys Glu Val Ile Ala Ala Leu Arg Lys Leu Ile  
 290 295 300  
 Leu Lys Lys  
 305

<210> 2217  
 <211> 232  
 <212> PRT  
 <213> Mus musculus

<400> 2217  
 Met Asp Lys Glu Asn Cys Ser Ser Leu Pro Glu Phe Phe Leu Leu Gly  
 1 5 10 15  
 Ile Ser Ser Lys Tyr Gly Val Lys Val Val Leu Phe Val Val Phe Leu  
 20 25 30  
 Leu Val Tyr Leu Thr Thr Leu Leu Glu Asn Ile Gly Met Ile Ala Leu  
 35 40 45  
 Ile Arg Met Asp Pro Gln Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 His Leu Ser Phe Ser Asp Leu Cys Tyr Ser Thr Ala Val Gly Pro Arg  
 65 70 75 80  
 Met Leu Val Asp Leu Val Ala Glu Lys His Ser Ile Pro Phe Thr Gly  
 85 90 95  
 Cys Phe Leu Gln Leu Leu Phe Val Tyr Val Phe Ile Asp Val Glu Cys  
 100 105 110  
 Met Leu Leu Ala Val Met Ala Phe Asp Arg Tyr Lys Ala Ile Ser Lys  
 115 120 125  
 Pro Leu Leu Tyr Ser Val Asp Met Ser Ser Lys Val Cys Tyr Gln Phe  
 130 135 140  
 Leu Thr Leu Ile Tyr Leu Thr Ser Thr Ile Asp Gly Leu Ile His Thr  
 145 150 155 160  
 Thr Leu Ala Phe Asn Leu Cys Phe Cys Gly Ser Thr Gln Ile Asn His  
 165 170 175  
 Phe Phe Cys Asp Leu Pro Pro Leu Tyr Leu Leu Ser Cys Ser Asp Thr  
 180 185 190  
 Gln Ala Asn Glu Leu Val Val Phe Thr Leu Phe Gly Phe Ile Glu Leu  
 195 200 205  
 Ser Thr Ile Ser Ser Val Leu Val Ser Tyr Cys Tyr Ile Ile Ser Ser  
 210 215 220  
 Val Leu Lys Ile Ser Ser Ala Gly  
 225 230

<210> 2218  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2218

Val	Lys	Gln	Glu	Glu	Leu	Glu	Ser	Ile	Tyr	Asn	Val	Ser	Thr	Val	Met
1				5					10					15	
Gln	Phe	Val	Leu	Gly	Phe	Ser	Asp	Leu	Pro	Asn	Leu	Gln	Gly	Phe	
		20					25					30			
Leu	Tyr	Ala	Leu	Phe	Phe	Val	Val	Phe	Ile	Ile	Ile	Leu	Ile	Asn	Phe
	35					40						45			
Leu	Ile	Ile	Leu	Val	Thr	Cys	Met	Asp	Pro	Ala	Leu	Gln	Lys	Ser	Ile
	50					55					60				
Tyr	Leu	Phe	Leu	Ala	Tyr	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val	Ser
65				70					75					80	
Val	Thr	Leu	Pro	Lys	Thr	Leu	Phe	Cys	Ile	Glu	Met	Gln	Tyr	Arg	Thr
			85					90						95	
Ile	Ser	Leu	Met	Pro	Cys	Ala	Ile	Gln	Leu	Cys	Phe	Phe	Leu	Ile	Phe
		100						105					110		
Gly	Ser	Thr	Glu	Cys	Phe	Leu	Leu	Thr	Gly	Met	Tyr	Tyr	Asp	Arg	Tyr
	115					120						125			
Met	Ser	Ile	Cys	Asn	Pro	Leu	His	Tyr	Pro	Leu	Val	Met	Asn	Pro	Lys
	130					135					140				
Asn	Cys	Lys	Glu	Leu	Ala	Val	Ser	Trp	Phe	Gly	Gly	Ile	Pro	Val	
145				150				155						160	
Gln	Ile	Val	Gln	Thr	Tyr	Gln	Val	Phe	Ser	Met	Arg	Phe	Cys	Asn	Ser
			165					170					175		
Asn	Gln	Ile	Tyr	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Ile	Leu	Lys	Leu
		180						185					190		
Ala	Cys	Gly	Asp	Thr	Ser	Val	His	Glu	Leu	Pro	Val	Phe	Val	Val	Val
	195					200						205			
Ser	Val	Val	Val	Ala	Leu	Pro	Phe	Ile	Leu	Leu	Leu	Thr	Ser	Ser	Ser
	210				215						220				
Lys	Ile	Ile	Ala	Thr	Ile	Leu	Arg	Leu	Pro	Thr	Ala	Lys	Gly	Arg	Ala
225				230				235						240	
Arg	Ala	Phe	Ser	Thr	Cys	Tyr	Ser	His	Leu	Leu	Val	Val	Leu	Leu	Phe
			245					250					255		
Tyr	Gly	Ser	Ala	Thr	Val	Thr	Met	Arg	Pro	Thr	Ser	Leu	Cys	Ser	Ser
	260						265					270			
Arg	Thr	Asp	Lys	Leu	Phe	Ser	Leu	Phe	Tyr	Ala	Val	Val	Ile	Pro	Met
	275					280						285			
Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr	Ala	Ala
	290				295						300				
Leu	Arg	Lys	Leu	Ile	Leu										
305					310										

<210> 2219

<211> 232

<212> PRT

<213> Mus musculus

<400> 2219

Leu	Glu	Ser	Ile	Asp	Asn	Val	Ser	Thr	Val	Met	Gln	Leu	Val	Leu	Leu
1				5					10					15	
Gly	Phe	Ser	Asp	Met	Ala	Asn	Leu	Gln	Gly	Phe	Leu	Tyr	Ala	Ala	Phe
		20						25				30			
Ile	Val	Val	Tyr	Ile	Ile	Val	Leu	Val	Gly	Asn	Phe	His	Ile	Ile	Leu
	35					40						45			
Val	Thr	Ser	Met	Asp	Thr	Ala	Phe	Gln	Lys	Ser	Met	Tyr	Phe	Phe	Leu
	50					55					60				

Ala	Ile	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val	Ser	Ala	Thr	Asp	Cys
65					70					75					80
Ile	Ser	Ile	Val	Gln	Ile	Val	Gln	Thr	Tyr	Gln	Ile	Phe	Ser	Met	His
				85					90					95	
Phe	Cys	Asn	Ser	Asn	Gln	Ile	Tyr	His	Phe	Phe	Arg	Asp	Ile	Pro	Pro
			100					105					110		
Ile	Leu	Lys	Leu	Pro	Cys	Glu	Asp	Thr	Ser	Val	His	Glu	Leu	Pro	Val
		115					120					125			
Phe	Val	Val	Val	Ser	Val	Ala	Phe	Ala	Leu	Pro	Phe	Ile	Leu	Val	Val
	130					135					140				
Thr	Ser	Ser	Ser	Lys	Ile	Ile	Ala	Thr	Ile	Leu	Arg	Leu	Pro	Thr	Ala
145					150					155					160
Lys	Gly	Arg	Ala	Arg	Ala	Phe	Ser	Thr	Cys	Tyr	Ser	His	Leu	Leu	Met
				165					170					175	
Val	Leu	Leu	Leu	Trp	Ile	Cys	Tyr	Ser	Tyr	Arg	Pro	Thr	Ser	Leu	Cys
			180					185					190		
Ser	Ser	Arg	Thr	Asp	Lys	Leu	Phe	Ser	Leu	Phe	Tyr	Ala	Val	Val	Ile
		195					200					205			
Pro	Met	Leu	Asn	Pro	Leu	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr
	210					215					220				
Ala	Ala	Leu	Arg	Lys	Leu	Ile	Leu								
225					230										

<210> 2220  
 <211> 246  
 <212> PRT  
 <213> Mus musculus

<400> 2220

Leu	Cys	Tyr	Thr	Ala	Val	Val	Val	Pro	His	Ile	Leu	Ala	Asn	Asn	Phe
1				5				10					15		
Gln	Ser	Glu	Lys	Thr	Ile	Ser	Leu	Leu	Ser	Cys	Ala	Thr	Gln	Met	Val
			20					25					30		
Phe	Leu	Ile	Gly	Leu	Gly	Ser	Ala	Asp	Cys	Phe	Leu	Leu	Ala	Ile	Met
	35					40					45				
Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Gln	Tyr	Pro	Leu
	50					55				60					
Ile	Met	Thr	Ile	Thr	Leu	Cys	Val	Arg	Leu	Val	Val	Ala	Ser	Val	Val
65					70				75						80
Ile	Gly	Leu	Phe	Leu	Ser	Leu	Gln	Leu	Val	Val	Phe	Ile	Phe	Cys	Leu
			85					90						95	
Pro	Phe	Cys	Gln	Asp	Arg	Gly	Ile	Glu	His	Phe	Phe	Cys	Asp	Ala	Pro
			100					105					110		
Pro	Leu	Met	Arg	Leu	Val	Cys	Ala	Thr	Ser	His	Ile	His	Glu	Leu	Ser
		115					120					125			
Val	Leu	Met	Ala	Ala	Thr	Leu	Ala	Ile	Ala	Val	Pro	Phe	Phe	Phe	Ile
	130					135					140				
Ala	Thr	Thr	Tyr	Ala	Leu	Ile	Val	Ala	Ala	Val	Leu	Lys	Leu	His	Ser
145					150					155					160
Ala	Ala	Gly	Arg	His	Arg	Ala	Phe	Asn	Thr	Cys	Ser	Ser	His	Leu	Thr
				165					170					175	
Val	Val	Leu	Leu	Gln	Tyr	Gly	Cys	Cys	Ala	Phe	Met	Tyr	Leu	Arg	Pro
			180					185					190		
Val	Ser	Ser	Tyr	His	Pro	Lys	Gln	Asp	Gln	Phe	Val	Ser	Leu	Val	Tyr
		195					200					205			
Thr	Leu	Gly	Thr	Pro	Phe	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn



210		215		220											
Ser	Glu	Met	Lys	Gly	Ala	Ile	Gly	Lys	Val	Leu	Thr	Arg	Lys	Tyr	Leu
225					230					235					240
Ser	Trp	Lys	Met	Ile	Gly										
				245											

<210> 2221  
 <211> 279  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (151)...(157)  
 <223> Any amino acid

<400> 2221

Met	Ala	Lys	Val	Asn	Leu	Thr	Leu	Val	Thr	Glu	Phe	Leu	Leu	Ile	Ala
1				5					10					15	
Phe	Thr	Glu	His	Pro	Glu	Trp	Gly	Leu	Pro	Leu	Phe	His	Leu	Phe	Leu
			20					25					30		
Phe	Ile	Tyr	Leu	Phe	Thr	Leu	Leu	Gly	Asn	Ser	Gly	Met	Ile	Val	Leu
		35					40					45			
Ile	Arg	Met	Asp	Arg	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser
	50					55					60				
His	Leu	Ser	Phe	Met	Asp	Ile	Cys	Tyr	Ser	Ser	Val	Thr	Val	Pro	Gln
65					70					75					80
Thr	Met	Ala	Val	Leu	Leu	Glu	His	Gly	Ala	Ala	Leu	Ser	Tyr	Ala	Arg
			85						90					95	
Cys	Val	Ala	Gln	Phe	Phe	Leu	Phe	Thr	Phe	Phe	Gly	Ser	Ile	Asp	Cys
			100						105				110		
Tyr	Leu	Leu	Ala	Leu	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Gln
		115					120					125			
Pro	Leu	Leu	Tyr	Val	Thr	Ile	Met	Thr	Gln	Lys	Ala	Leu	Leu	Ser	Phe
	130					135					140				
Val	Val	Gly	Leu	Thr	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Gly	Glu	Ser
145					150					155					160
Tyr	Ile	Gln	Glu	Leu	Val	Ile	Ile	Val	Phe	Ala	Ile	Phe	Val	Ile	Pro
				165					170					175	
Cys	Ser	Met	Val	Val	Ile	Val	Val	Ser	Tyr	Leu	Phe	Ile	Ile	Val	Ala
			180					185					190		
Ile	Leu	Arg	Ile	Pro	Ser	Ala	Gly	Gly	Arg	Ala	Lys	Thr	Phe	Ser	Thr
		195					200					205			
Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Ser	Leu	Phe	Phe	Gly	Thr	Leu	Ile
	210					215						220			
Phe	Met	Tyr	Leu	Arg	Asp	Asn	Ser	Gly	Gln	Ala	Ser	Glu	Lys	Asp	Arg
225					230					235					240
Val	Val	Ser	Val	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
				245					250					255	
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Glu	Ala	Leu	Lys	Asn	Phe
			260					265					270		
Leu	Asn	Arg	Val	Lys	Thr	Phe									
			275												

<210> 2222

<211> 292  
 <212> PRT  
 <213> Mus musculus

<400> 2222

Leu	Phe	Val	Leu	Val	Leu	Ile	Ser	Tyr	Leu	Leu	Thr	Leu	Val	Gly	Asn
1			5						10					15	
Thr	Ala	Ile	Ile	Leu	Val	Ser	Cys	Leu	Asp	Ser	Ala	Leu	Gln	Thr	Pro
			20					25					30		
Met	Tyr	Tyr	Phe	Leu	Thr	Asn	Leu	Ser	Phe	Val	Asp	Ile	Cys	Phe	Ser
		35					40					45			
Thr	Ser	Ile	Val	Pro	Gln	Leu	Leu	Trp	Asn	Leu	His	Gly	Pro	Ala	Lys
	50					55					60				
Thr	Ile	Thr	Ala	Thr	Gly	Cys	Ala	Ile	Gln	Leu	Tyr	Val	Ser	Leu	Ala
65					70					75					80
Leu	Gly	Ser	Thr	Glu	Cys	Val	Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg
				85					90					95	
Tyr	Ala	Ala	Val	Cys	Arg	Pro	Leu	His	Tyr	Ala	Thr	Val	Met	His	Pro
			100					105					110		
Arg	Leu	Cys	Gln	Ser	Leu	Ala	Gly	Val	Ala	Trp	Leu	Ser	Gly	Val	Gly
		115					120					125			
Asn	Thr	Leu	Ile	Gln	Gly	Thr	Ile	Thr	Leu	Arg	Leu	Pro	Arg	Cys	Gly
	130					135					140				
Asn	His	Lys	Ile	Tyr	His	Phe	Ile	Cys	Glu	Val	Pro	Ala	Met	Ile	Lys
145					150					155					160
Leu	Ala	Cys	Val	Asp	Ile	His	Ala	Asn	Glu	Val	Gln	Leu	Phe	Met	Ala
				165					170					175	
Ser	Leu	Val	Leu	Leu	Leu	Leu	Pro	Leu	Thr	Leu	Ile	Leu	Val	Ser	Tyr
			180					185					190		
Gly	Tyr	Ile	Ala	Gln	Ala	Leu	Met	Arg	Leu	Arg	Ser	Ala	Leu	Thr	Trp
		195					200					205			
Gly	Lys	Ala	Leu	Gly	Thr	Cys	Gly	Ser	His	Leu	Ile	Val	Val	Val	Leu
	210					215					220				
Phe	Tyr	Gly	Thr	Ser	Thr	Ala	Val	Tyr	Ile	His	Pro	Asn	Ser	Ser	Tyr
225					230					235					240
Ala	Gln	Ser	Gln	Gly	Lys	Phe	Ile	Thr	Leu	Leu	Tyr	Thr	Val	Val	Ile
			245						250					255	
Pro	Thr	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys
			260					265					270		
Gly	Ala	Leu	Lys	Arg	Leu	Val	Arg	Lys	Asp	Ser	Ser	Thr	Gly	Lys	Lys
		275					280						285		
Ile	Leu	Ser	Arg												
			290												

<210> 2223  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2223

Met	Ile	Val	Glu	Asn	Ile	Thr	Thr	Met	Ser	Gly	Phe	Leu	Leu	Met	Gly
1				5					10					15	
Phe	Ser	Asp	Asn	His	Glu	Leu	Gln	Ile	Leu	Gln	Ala	Leu	Leu	Phe	Leu
			20					25					30		
Val	Thr	Tyr	Leu	Val	Gly	Ser	Ala	Gly	Asn	Val	Ile	Ile	Ile	Thr	Ile
		35					40					45			

Thr	Thr	Leu	Asp	Pro	Gln	Leu	Gln	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Lys
50						55					60				
His	Leu	Ser	Ile	Leu	Asp	Leu	Ser	Ser	Leu	Ser	Val	Thr	Val	Pro	Gln
65					70					75					80
Tyr	Val	Asp	Ser	Ser	Leu	Ala	Gln	Ser	Gly	Tyr	Ile	Ser	Tyr	Ala	Gln
				85					90					95	
Cys	Met	Leu	Gln	Ile	Phe	Phe	Phe	Thr	Ala	Phe	Ala	Trp	Gly	Glu	Leu
			100					105					110		
Ala	Ile	Leu	Thr	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Leu
			115					120					125		
Pro	Leu	His	Tyr	Glu	Val	Ile	Met	Ser	Pro	Arg	Lys	Cys	Thr	Trp	Ala
						135					140				
Val	Ala	Thr	Val	Trp	Leu	Ser	Gly	Gly	Ile	Ser	Gly	Thr	Leu	Tyr	Ile
145					150					155					160
Thr	Gly	Thr	Leu	Phe	Ile	Arg	Phe	Cys	Gly	Asp	Lys	Ile	Ile	His	Gln
				165					170					175	
Phe	Phe	Cys	Asp	Val	Pro	Gln	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asn	Asp
			180					185					190		
His	Leu	Val	Ile	Met	Asp	Met	Val	Ser	Phe	Leu	Thr	Ala	Val	Ser	Phe
			195				200					205			
Ala	Cys	Phe	Thr	Gly	Ile	Val	Ile	Ser	Tyr	Val	His	Ile	Phe	Ser	Thr
			210			215					220				
Val	Leu	Arg	Met	Pro	Ser	Ala	Glu	Ser	Arg	Ser	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Leu	Pro	His	Leu	Phe	Val	Val	Ser	Leu	Phe	Leu	Ser	Thr	Gly	Ala
				245					250					255	
Phe	Ala	Tyr	Leu	Asn	Leu	Thr	Ser	Asp	Ser	Ser	Thr	Ala	Leu	Glu	Phe
			260					265					270		
Leu	Leu	Ser	Ile	Phe	Tyr	Thr	Val	Leu	Pro	Pro	Thr	Leu	Asn	Pro	Val
			275				280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Glu	Thr	Ile	Lys	Asn	Val	Val	Arg	Lys	Leu
			290			295					300				
Leu	Leu	Ser	Thr	Lys	Phe	Thr	Val	Arg	Ile	Ile	Phe	Phe	Ser	Cys	Cys
305					310					315					320
Phe															

<210> 2224

<211> 290

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (92)...(124)

<223> Any amino acid

<400> 2224

Met	Glu	Gly	Lys	Asn	Gln	Thr	Ala	Pro	Ser	Glu	Phe	Ile	Ile	Leu	Gly
1				5				10						15	
Phe	Asp	His	Leu	Asn	Glu	Leu	Gln	Tyr	Leu	Leu	Phe	Thr	Ile	Phe	Phe
			20					25					30		
Leu	Thr	Tyr	Ile	Cys	Thr	Leu	Gly	Gly	Asn	Val	Phe	Ile	Ile	Val	Val
			35			40						45			
Thr	Ile	Ala	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Gly
50						55					60				

Asn	Leu	Ala	Leu	Ile	Asp	Ile	Cys	Tyr	Thr	Thr	Thr	Asn	Val	Pro	Gln
65					70					75					80
Met	Met	Val	His	Leu	Leu	Ser	Glu	Lys	Lys	Ile	Xaa	Xaa	Xaa	Xaa	Xaa
			85						90					95	
Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			100					105						110	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Gly	Phe	Leu	Asn
			115					120				125			
Ser	Val	Leu	His	Thr	Val	Leu	Thr	Phe	His	Leu	Pro	Phe	Cys	Gly	Asn
	130					135					140				
Asn	Gln	Ile	Asn	Tyr	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ile	Leu
145					150					155					160
Ser	Cys	Gly	Asp	Thr	Ser	Leu	Asn	Glu	Leu	Ala	Leu	Leu	Ser	Ile	Gly
				165					170					175	
Ile	Leu	Ile	Gly	Trp	Thr	Pro	Phe	Leu	Cys	Ile	Ile	Leu	Ser	Tyr	Leu
			180					185						190	
Tyr	Ile	Ile	Ser	Thr	Ile	Leu	Arg	Ile	Arg	Ser	Ser	Glu	Gly	Arg	Gln
			195				200					205			
Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Leu	Ile	Val	Ile	Leu	Tyr
	210					215					220				
Tyr	Gly	Ser	Ala	Ile	Phe	Thr	Tyr	Val	Arg	Pro	Ile	Ser	Ser	Tyr	Ser
225					230					235					240
Leu	Glu	Lys	Asp	Arg	Leu	Ile	Ser	Val	Leu	Tyr	Ser	Val	Phe	Thr	Pro
				245					250					255	
Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ala	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Glu
			260					265					270		
Ala	Val	Lys	Ala	Ile	Gly	Arg	Lys	Trp	Gln	Pro	Pro	Val	Phe	Ser	Ser
		275					280						285		
Asp	Met														
	290														

<210> 2225  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 2225															
Met	Ser	Ile	Asn	Cys	Ser	Leu	Trp	Gln	Glu	Asn	Ser	Leu	Ser	Val	Lys
1				5					10					15	
Arg	Phe	Ala	Phe	Ala	Lys	Phe	Ser	Glu	Val	Pro	Gly	Glu	Cys	Phe	Leu
			20					25					30		
Leu	Phe	Thr	Leu	Ile	Leu	Leu	Met	Phe	Leu	Val	Ser	Leu	Thr	Gly	Asn
		35					40					45			
Ala	Leu	Ile	Ala	Leu	Val	Ile	Cys	Thr	Asn	Pro	Ser	Leu	His	Asn	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Leu	Ser	Leu	Leu	Glu	Ile	Gly	Tyr	Thr
65					70					75					80
Cys	Ser	Val	Ile	Pro	Lys	Met	Leu	Gln	Ser	Leu	Val	Ser	Glu	Ala	Arg
				85					90					95	
Glu	Ile	Ser	Arg	Glu	Gly	Cys	Ala	Thr	Gln	Met	Phe	Phe	Phe	Thr	Phe
			100					105					110		
Phe	Gly	Ile	Thr	Glu	Cys	Cys	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg
		115					120					125			
Cys	Met	Ala	Ile	Cys	Ser	Pro	Leu	His	Tyr	Pro	Thr	Arg	Met	Ser	Ser
	130					135					140				
Gly	Val	Cys	Ala	His	Leu	Ala	Ile	Val	Ser	Trp	Gly	Met	Gly	Cys	Ile

145					150					155				160
Val	Gly	Leu	Gly	Gln	Thr	Asn	Phe	Ile	Phe	Ser	Leu	Glu	Phe	Cys Gly
				165					170					175
Pro	Cys	Glu	Ile	Asp	His	Phe	Phe	Cys	Asp	Leu	Pro	Pro	Val	Leu Ala
			180					185					190	
Leu	Ala	Cys	Gly	Asp	Thr	Ser	Gln	Asn	Glu	Ala	Ala	Ile	Phe	Val Ala
		195					200					205		
Ala	Val	Leu	Cys	Ile	Ser	Ser	Pro	Phe	Leu	Leu	Ile	Ile	Tyr	Ser Tyr
	210					215					220			
Val	Arg	Ile	Leu	Val	Ala	Val	Leu	Val	Met	Pro	Ser	Pro	Glu	Gly Arg
225					230					235				240
His	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Thr Met
				245					250					255
Phe	Tyr	Gly	Ser	Ala	Ser	Ile	Thr	Tyr	Leu	Arg	Pro	Lys	Ser	Ser His
			260					265					270	
Ser	Pro	Gly	Met	Asp	Lys	Leu	Leu	Ala	Leu	Phe	Tyr	Thr	Ala	Val Thr
		275					280					285		
Ser	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Gly	Ser Lys
	290					295					300			
Gly	Ser	Thr	Glu	Lys	Asn	Thr	Glu	Ser	Glu	Glu	Thr	Ser	Gly	Asn Lys
305					310					315				320

<210> 2226  
 <211> 206  
 <212> PRT  
 <213> Mus musculus

<400> 2226

Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Leu	Pro	Leu	His	Tyr	Glu
1				5					10					15	
Val	Ile	Met	Ser	Pro	Arg	Lys	Cys	Thr	Trp	Ala	Val	Ala	Ala	Val	Trp
			20					25					30		
Leu	Ser	Gly	Gly	Ile	Ser	Gly	Thr	Leu	Phe	Thr	Ala	Ser	Thr	Leu	Ser
		35				40							45		
Ile	Arg	Phe	Cys	Gly	Asp	Lys	Ile	Ile	His	Gln	Phe	Phe	Cys	Asp	Ile
	50					55					60				
Pro	Gln	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asn	Asp	Asp	Phe	Gly	Val	Leu
65					70					75					80
Glu	Val	Ser	Ile	Phe	Met	Ala	Val	Met	Ala	Phe	Ala	Cys	Phe	Met	Gly
				85					90					95	
Ile	Ala	Phe	Ser	Tyr	Gly	Gln	Ile	Phe	Ser	Thr	Val	Leu	Arg	Met	Pro
			100					105					110		
Ser	Ala	Glu	Gly	Arg	Ser	Lys	Val	Phe	Ser	Thr	Cys	Leu	Pro	His	Leu
		115					120					125			
Phe	Val	Val	Ser	Phe	Phe	Leu	Ser	Thr	Gly	Ser	Cys	Ala	Tyr	Leu	Lys
	130					135					140				
Pro	Thr	Ser	Asp	Ser	Pro	Thr	Ala	Ser	Asp	Leu	Met	Leu	Ser	Ile	Phe
145					150					155					160
Tyr	Thr	Val	Leu	Pro	Pro	Thr	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg
				165					170					175	
Asn	Lys	Ser	Leu	Lys	Glu	Ala	Val	Lys	Lys	Leu	Leu	Leu	Ser	Glu	Glu
			180					185					190		
Leu	Val	Gly	Lys	Ile	Tyr	Val	Cys	Ser	Val	Phe	Ser	Ala	Cys		
		195					200					205			

<210> 2227  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2227  
 Met Arg Ser Asp Asn Asp Ser Thr Val Ser Glu Leu Ile Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Gln Ala Glu Asp Gln Gly Met Tyr Cys Ala Leu Phe Leu  
 20 25 30  
 Thr Met Cys Leu Thr Thr Val Leu Gly Asn Leu Ile Ile Ile Leu Leu  
 35 40 45  
 Ile Arg Leu Asn Phe His Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
 50 55 60  
 His Leu Ala Phe Thr Asp Ile Ser Phe Ser Ser Val Thr Ala Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Met Leu Thr His Ser Gln Phe Ile Ser Tyr Val Gly  
 85 90 95  
 Cys Ile Phe Gln Leu Tyr Phe Leu Ser Thr Phe Thr Asp Leu Asp Ser  
 100 105 110  
 Phe Leu Leu Thr Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Thr Ile Ile Met Ser Gln Asn Leu Cys Ile Leu Leu  
 130 135 140  
 Val Val Val Ser Thr Leu Ser Ser Ala Asn Ser Leu Val Tyr Thr Leu  
 145 150 155 160  
 Leu Leu Ala Arg Phe Ser His Phe Arg Asn Asn Thr Thr Pro His Tyr  
 165 170 175  
 Phe Cys Asp Leu Ser Ala Leu Leu Lys Leu Ser Ile Ser Asp Thr Thr  
 180 185 190  
 Ile Asn Glu Leu Val Ile Phe Pro Leu Gly Thr Val Val Ile Ala Leu  
 195 200 205  
 Ala Phe Ile Cys Ile Leu Val Ser Tyr Gly Arg Ile Gly Ile Thr Ile  
 210 215 220  
 Leu Lys Thr Pro Ser Ile Arg Gly Ile Cys Lys Ala Leu Ser Thr Cys  
 225 230 235 240  
 Gly Ser His Leu Thr Val Val Ser Leu Tyr Tyr Gly Ala Ile Thr Gly  
 245 250 255  
 Leu Tyr Leu Val Pro Ser Ser Asn Asn Thr Asn Asp Lys Asp Val Ile  
 260 265 270  
 Val Ala Val Ile Tyr Ser Leu Val Thr Pro Met Leu Asn Pro Phe Ile  
 275 280 285  
 Tyr Ser Leu Arg Asn Gln Asp Met Lys Lys Ser Ile Glu Lys Tyr Ser  
 290 295 300  
 Glu Gln Glu Thr Val Phe Thr  
 305 310

<210> 2228  
 <211> 177  
 <212> PRT  
 <213> Mus musculus

<400> 2228  
 Met Arg Arg Asp Asn Glu Ser Thr Val Ser Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Arg Ala Glu Asp Gln Asp Met Tyr Ser Ala Pro Phe Leu



His	Ser	Phe	Ala	Ala	Leu	Lys	Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser	His
225					230					235					240
Ile	Leu	Ile	Val	Leu	Leu	Phe	Gly	Ser	Leu	Ala	Arg	Met	Tyr	Leu	
				245				250					255		
Lys	Pro	Ser	Ser	Ser	Tyr	Asp	Leu	Asp	Gln	Asp	His	Gln	Val	Ala	Ile
			260					265					270		
Phe	Tyr	Met	Leu	Ile	Ser	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
		275					280					285			
Arg	Asn	Gln	Asp	Val	Lys	Gly	Ala	Leu	Trp	Arg	Leu	Phe	Arg	Lys	Leu
	290					295					300				
His	Thr	Ser	Asp	Trp	Leu	Leu	Glu	Lys	Gln						
305					310										

<210> 2230  
 <211> 170  
 <212> PRT  
 <213> Mus musculus

<400> 2230															
Leu	Thr	Ile	Met	Ala	Gln	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
1				5					10					15	
Leu	Lys	Thr	Phe	Gln	Leu	Ser	Phe	Cys	His	Ser	Asn	Val	Val	Pro	Gln
			20					25					30		
Phe	Phe	Cys	Asp	Ile	Pro	Ser	Leu	Leu	Arg	Leu	Ser	Cys	Ser	Asp	Thr
		35					40					45			
Phe	Asn	Asn	Lys	Leu	Leu	Ile	Leu	Leu	Ser	Ala	Ile	Leu	Val	Ser	Gly
	50					55					60				
Ser	Cys	Phe	Val	Phe	Ile	Val	Ile	Ser	Tyr	Val	Arg	Ile	Leu	Ser	Thr
65					70					75					80
Val	Leu	Lys	Val	Pro	Val	Lys	Gly	Glu	Arg	Gly	Lys	Ala	Phe	Ser	Thr
			85					90						95	
Cys	Val	Pro	His	Ile	Ile	Val	Val	Ser	Val	Phe	Leu	Ser	Ser	Ala	Ala
			100					105					110		
Tyr	Ile	Tyr	Leu	Lys	Pro	Pro	Val	Val	Thr	Leu	Glu	Val	Ala	Lys	Glu
		115					120					125			
Met	Thr	Leu	Ser	Val	Phe	Tyr	Thr	Ile	Val	Pro	Pro	Phe	Leu	Asn	Pro
	130					135						140			
Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Gln	Ile	Lys	Lys	Ala	Val	Ser	Lys
145					150					155					160
Leu	Ile	Ser	Arg	Ile	Phe	Phe	Leu	Ile	Met						
				165					170						

<210> 2231  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 2231															
Met	Pro	Asn	Asp	Thr	Arg	Val	Thr	Gly	Phe	Ile	Leu	Met	Gly	Phe	Ser
1				5					10					15	
Ala	Ala	Pro	Glu	Leu	Gln	Thr	Val	Cys	Gly	Leu	Phe	Phe	Leu	Val	Met
			20					25					30		
Tyr	Leu	Ala	Val	Ile	Met	Ser	Asn	Leu	Leu	Ile	Ile	Thr	Val	Ile	Thr
		35					40					45			
Leu	Asp	Leu	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Lys	Asn	Leu



50		55		60											
Ser	Leu	Leu	Asp	Val	Phe	Leu	Val	Ser	Ile	Pro	Ile	Pro	Lys	Phe	Ile
65					70					75					80
Ile	Asn	Asn	Leu	Thr	His	Asn	Asn	Tyr	Ile	Ser	Ile	Leu	Gly	Cys	Ala
				85					90					95	
Phe	Gln	Ile	Leu	Met	Thr	Ser	Phe	Ser	Ala	Gly	Glu	Ile	Phe	Val	
			100					105					110		
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser	Pro	Leu
		115					120				125				
Cys	Tyr	Glu	Ala	Ile	Met	Ser	Ser	Gly	Asn	Cys	Val	Leu	Met	Val	Gly
	130				135				140						
Val	Ser	Trp	Ala	Thr	Gly	Ile	Leu	Phe	Gly	Ala	Leu	Tyr	Thr	Ala	Gly
145					150				155						160
Thr	Phe	Ser	Met	Pro	Phe	Cys	Gly	Ser	Met	Val	Ile	Pro	Gln	Phe	Phe
				165				170					175		
Cys	Asp	Val	Pro	Ser	Leu	Leu	Arg	Ile	Ser	Cys	Ser	Gly	Ser	Leu	Met
		180					185				190				
Ile	Ile	Tyr	Ile	Ser	Leu	Gly	Ile	Gly	Met	Cys	Leu	Cys	Met	Ser	Cys
	195				200				205						
Phe	Tyr	Cys	Val	Met	Ile	Ser	Tyr	Phe	Tyr	Ile	Ile	Ser	Thr	Val	Leu
	210				215				220						
Lys	Ile	Pro	Thr	Thr	Arg	Gly	Gln	Ser	Lys	Ala	Phe	Ala	Thr	Cys	Ile
225					230				235						240
Pro	His	Leu	Thr	Val	Phe	Ser	Val	Phe	Ile	Ala	Thr	Ala	Cys	Phe	Val
			245					250				255			
Tyr	Leu	Lys	Pro	Pro	Ser	Asp	Ile	Pro	Ser	Ile	Thr	Asp	Arg	Leu	Phe
		260					265				270				
Ser	Val	Leu	Tyr	Thr	Val	Leu	Pro	Pro	Ala	Leu	Asn	Pro	Val	Ile	Tyr
	275				280				285						
Ser	Leu	Arg	Asn	Ser	Asp	Val	Lys	Cys	Ser	Leu	Arg	Arg	Leu	Gln	Gln
	290				295				300						
Asn	Leu	Cys	Pro	Arg	Asp	Ser	Tyr	Tyr	Leu	Thr	Val	Gln			
305					310				315						

<210> 2232  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2232

Met	His	Phe	Gln	Thr	Met	Ala	Asn	Thr	Ser	Ile	Val	Thr	Glu	Phe	Phe
1				5					10					15	
Leu	Glu	Gly	Phe	Cys	Thr	Trp	Glu	Leu	Arg	Val	Leu	Leu	Ser	Val	Leu
			20					25					30		
Phe	Leu	Leu	Val	Tyr	Leu	Cys	Ser	Leu	Leu	Gly	Asn	Ile	Thr	Ile	Ile
		35				40					45				
Ile	Val	Thr	Thr	Val	Asp	Gln	Thr	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe
	50					55					60				
Leu	Arg	Asn	Leu	Ser	Ile	Leu	Asp	Met	Cys	Tyr	Ile	Ser	Ile	Thr	Val
65					70				75						80
Pro	Ser	Ala	Cys	Ile	Asn	Ser	Leu	Thr	Asp	His	Arg	Asn	Ile	Ser	Val
			85						90					95	
Ala	Gly	Cys	Ala	Ala	Gln	Ile	Phe	Ser	Phe	Leu	Phe	Cys	Ala	Leu	Val
		100						105					110		
Glu	Ile	Phe	Phe	Phe	Phe	Met	Ala	Gln	Asp	Arg	Tyr	Val	Ala	Ile	Cys
	115						120					125			

Lys	Pro	Leu	Leu	Tyr	Pro	Val	Ile	Met	Asn	His	Gln	Phe	Cys	Val	Gln
	130					135					140				
Met	Thr	Leu	Ala	Ser	Leu	Leu	Ser	Ser	Leu	Val	Ile	Ala	Ser	Val	His
145					150					155					160
Thr	Phe	Lys	Thr	Phe	Gln	Leu	Ser	Phe	Cys	His	Ser	Asn	Val	Ile	Pro
				165					170					175	
Gln	Phe	Phe	Cys	Asp	Leu	Pro	Ala	Leu	Leu	Arg	Leu	Ser	Cys	Ser	Asp
			180					185					190		
Thr	Phe	Asn	Asn	Asn	Leu	Leu	Ile	Leu	Pro	Thr	Asp	Ile	Gly	Val	Ser
		195					200					205			
Gly	Ser	Cys	Phe	Val	Phe	Ile	Ala	Ile	Ser	Tyr	Ile	Arg	Ile	Leu	Ser
	210					215					220				
Thr	Val	Leu	Lys	Ile	Pro	Ile	Lys	Arg	Glu	Arg	Gly	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Val	Pro	His	Ile	Ile	Val	Val	Ser	Val	Phe	Val	Ser	Ser	Ala
				245					250					255	
Ala	Tyr	Val	Tyr	Leu	Arg	Pro	Pro	Val	Ile	Thr	Phe	Glu	Val	Val	Gln
			260					265					270		
Glu	Met	Ile	Val	Ser	Val	Phe	Tyr	Thr	Met	Val	Pro	Pro	Phe	Leu	Asn
		275					280					285			
Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Gln	Ile	Lys	Glu	Ala	Val	Arg
	290					295					300				
Lys	Val	Met	Ser	Gln	Val	Phe	Pro	Ile							
305					310										

<210> 2233  
 <211> 325  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (19)...(25)  
 <223> Any amino acid

<400> 2233

Met	Thr	Asn	His	Thr	Met	Val	Thr	Glu	Phe	Ile	Leu	Thr	Gly	His	Pro
1				5					10					15	
Asn	Arg	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	Leu	Gly	Ile	Pro	Glu	Thr
		20						25				30			
Glu	Gly	Leu	Glu	Asn	Val	Leu	Leu	Phe	Leu	Phe	Ser	Thr	Leu	Tyr	Ala
		35				40					45				
Cys	Ala	Leu	Leu	Gly	Asn	Leu	Leu	Leu	Leu	Thr	Ala	Val	Ile	Ser	Ser
	50					55				60					
Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn	Leu	Ser	Ile
65				70					75					80	
Phe	Asp	Met	Gly	Phe	Cys	Ser	Thr	Thr	Ala	Pro	Lys	Met	Leu	Ser	Tyr
			85					90					95		
Leu	Ser	Gly	Gln	Gly	Gly	Gly	Ile	Ser	Phe	Gln	Gly	Cys	Val	Val	Gln
		100				105						110			
His	Phe	Phe	Tyr	His	Cys	Leu	Gly	Cys	Thr	Glu	Cys	Phe	Leu	Tyr	Thr
	115					120					125				
Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Phe	Pro	Leu	Arg	Tyr
	130					135				140					
Thr	Ile	Ile	Met	Asn	His	Arg	Val	Cys	Cys	Val	Leu	Ala	Thr	Gly	Thr
145				150						155					160

Trp	Met	Ser	Gly	Cys	Val	His	Ala	Thr	Ile	Leu	Thr	Cys	Leu	Thr	Phe
				165					170					175	
Gln	Leu	Pro	Tyr	Cys	Gly	Pro	Ser	Asn	Val	Gly	Tyr	Tyr	Phe	Cys	Asp
			180					185					190		
Met	Pro	Ala	Val	Leu	Pro	Leu	Ala	Cys	Glu	Asp	His	Ser	Leu	Ala	Gln
		195					200					205			
Arg	Val	Gly	Phe	Thr	Asn	Val	Gly	Leu	Leu	Ser	Leu	Ile	Cys	Phe	Phe
	210					215					220				
Leu	Ile	Leu	Val	Ser	Tyr	Thr	Arg	Ile	Gly	Ile	Ser	Ile	Ser	Lys	Ile
225					230					235					240
Arg	Ser	Thr	Glu	Gly	Arg	Gln	Arg	Ala	Phe	Ser	Thr	Cys	Ser	Ala	His
			245						250					255	
Leu	Thr	Ala	Ile	Ile	Cys	Ala	Tyr	Gly	Pro	Val	Ile	Val	Ile	Tyr	Leu
		260						265					270		
Gln	Pro	Asn	Pro	Ser	Pro	Leu	Leu	Gly	Ala	Val	Ile	Gln	Ile	Leu	Asn
		275					280					285			
Asn	Leu	Val	Thr	Pro	Thr	Ile	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn
	290					295					300				
Lys	Asp	Val	Lys	Ala	Ala	Leu	Arg	His	Val	Phe	Leu	Lys	Arg	Ser	Leu
305					310					315					320
Ser	Leu	Glu	Ser	Lys											
				325											

<210> 2234  
 <211> 254  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (91)...(145)  
 <223> Any amino acid

<400> 2234

Met	Ile	Ala	Gly	Asn	Tyr	Ser	Met	Val	Thr	Glu	Phe	Ile	Leu	Ala	Gly
1				5					10					15	
Leu	Thr	Ser	Thr	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Phe	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Ala	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Met	Ile	Thr	Leu
	35					40					45				
Ile	Leu	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55				60					
Ser	Leu	Ser	Phe	Ile	Asp	Leu	Cys	His	Ser	Thr	Val	Ile	Thr	Pro	Lys
65					70					75				80	
Met	Leu	Val	Asn	Phe	Val	Thr	Val	Lys	Asn	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			85					90						95	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			100					105					110		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			115					120					125		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			130					135					140		
Xaa	Phe	Ser	Ala	Phe	Asn	Ile	Leu	Phe	Pro	Thr	Leu	Ser	Ile	Leu	Ser
145					150					155				160	
Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Ser	Ile	Leu	Arg	Ile	Lys	Ser	Thr	Glu
			165						170					175	

Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Ile	Ser	Ala	Val
			180					185					190		
Ala	Val	Phe	Phe	Gly	Ser	Ala	Ala	Phe	Met	Tyr	Leu	Gln	Pro	Ser	Ser
		195					200					205			
Val	Ser	Ser	Met	Asp	Gln	Gly	Lys	Val	Ser	Ser	Val	Phe	Tyr	Thr	Ile
	210					215					220				
Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp
225					230					235					240
Val	Lys	Val	Ala	Leu	Thr	Lys	Phe	Tyr	Glu	Lys	Ser	Phe	Ser		
				245					250						

<210> 2235  
 <211> 265  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (77)...(80)  
 <223> Any amino acid

<221> VARIANT  
 <222> (82)...(83)  
 <223> Any amino acid

<400> 2235

Met	Gly	Glu	Asp	Asn	Arg	Thr	Ser	Val	Thr	Glu	Phe	Ile	Phe	Leu	Gly
1				5					10					15	
Leu	Ser	Gln	Asp	Pro	Gln	Thr	Gln	Val	Leu	Leu	Phe	Phe	Leu	Phe	Leu
			20					25					30		
Phe	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Val	Leu
		35					40					45			
Ile	His	Ser	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
Asn	Leu	Ser	Phe	Ala	Asp	Leu	Cys	Phe	Ser	Thr	Thr	Xaa	Xaa	Xaa	Xaa
65					70					75					80
Phe	Xaa	Xaa	Cys	Leu	Gln	Pro	Leu	His	Tyr	Ser	Thr	Ile	Met	Tyr	Thr
			85						90					95	
Arg	Val	Cys	Val	Gln	Leu	Ala	Ala	Gly	Ser	Trp	Ala	Ser	Gly	Ala	Leu
			100					105					110		
Val	Ser	Leu	Val	Asp	Thr	Thr	Phe	Thr	Leu	Arg	Leu	Pro	Tyr	Arg	Gly
		115					120					125			
Asn	Asn	Val	Ile	Asn	His	Phe	Phe	Cys	Glu	Pro	Pro	Ala	Leu	Leu	Lys
	130					135						140			
Leu	Ala	Ser	Ala	Asp	Thr	Tyr	Ser	Thr	Glu	Met	Ala	Ile	Phe	Ala	Met
145					150					155					160
Gly	Val	Val	Ile	Leu	Leu	Ala	Pro	Val	Ser	Leu	Ile	Leu	Thr	Ser	Tyr
			165						170					175	
Trp	Asn	Ile	Val	Ser	Thr	Val	Ile	Gln	Met	Gln	Ser	Gly	Glu	Gly	Arg
		180						185					190		
Leu	Lys	Val	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ile	Val	Val	Val	Leu
		195					200					205			
Phe	Tyr	Gly	Ser	Gly	Ile	Phe	Ala	Tyr	Met	Arg	Pro	Asn	Ser	Lys	Ile
	210					215					220				
Met	Asn	Glu	Lys	Asp	Lys	Met	Ile	Ser	Val	Phe	Tyr	Ser	Ala	Val	Thr
225					230					235					240

Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys
			245						250					255	
Gly	Ala	Leu	Lys	Arg	Ile	Thr	Thr	Lys							
			260					265							

<210> 2236  
 <211> 268  
 <212> PRT  
 <213> Mus musculus

<400> 2236

Leu	Val	Val	Leu	Val	Ile	Glu	Asp	Ser	Arg	Leu	His	Asn	Pro	Met	Tyr
1				5					10					15	
Tyr	Phe	Leu	Thr	Val	Leu	Ser	Ser	Leu	Asp	Ala	Cys	Phe	Ser	Ser	Val
			20					25					30		
Leu	Thr	Pro	Lys	Met	Leu	Ala	Asn	Phe	Leu	Ser	Lys	Asn	Lys	Ser	Ile
		35					40					45			
Ser	Phe	Ala	Gly	Cys	Ala	Thr	Gln	Met	Leu	Leu	Phe	Val	Thr	Phe	Gly
	50				55						60				
Thr	Thr	Glu	Cys	Phe	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	
65					70				75					80	
Ala	Ile	Tyr	Ser	Pro	Leu	Leu	Tyr	Ala	Val	Arg	Met	Ser	Pro	Arg	Val
				85					90					95	
Tyr	Val	Pro	Leu	Ile	Ile	Ala	Ser	Tyr	Thr	Gly	Gly	Ile	Leu	His	Ala
			100					105						110	
Thr	Ile	His	Thr	Val	Ala	Thr	Phe	Ser	Leu	Ser	Phe	Cys	Gly	Ser	Asn
		115					120					125			
Glu	Ile	Arg	His	Val	Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Leu	Ser
	130					135					140				
Cys	Ser	Asp	Thr	His	Leu	Asn	Gln	Leu	Leu	Leu	Phe	Tyr	Cys	Ala	Gly
145					150					155					160
Ser	Ile	Lys	Leu	Ile	Thr	Ile	Leu	Ile	Val	Leu	Val	Ser	Tyr	Gly	Phe
			165						170					175	
Val	Leu	Leu	Ala	Ile	Leu	Lys	Ile	Asn	Ser	Ala	Glu	Gly	Arg	Arg	Lys
			180					185					190		
Ile	Phe	Ser	Thr	Cys	Gly	Ala	His	Leu	Thr	Gly	Val	Ser	Ile	Phe	His
	195						200						205		
Gly	Thr	Ile	Leu	Phe	Met	Tyr	Val	Arg	Pro	Ser	Ser	Asn	Tyr	Thr	Leu
	210					215						220			
Glu	Gln	Asp	Met	Val	Val	Ser	Thr	Phe	Tyr	Thr	Ile	Val	Ile	Pro	Met
225					230					235					240
Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala
			245						250					255	
Met	Arg	Lys	Leu	Leu	Lys	Arg	Lys	Leu	Val	His	Glu				
			260					265							

<210> 2237  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (242)...(248)  
 <223> Any amino acid

<400> 2237

Met	Ala	Asp	Arg	Asn	Leu	Thr	Val	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Glu	Asp	Pro	Val	Leu	Asn	Thr	Val	Leu	Ser	Val	Leu	Cys	Leu
			20					25					30		
Leu	Ile	Tyr	Val	Ile	Thr	Val	Ala	Gly	Asn	Leu	Trp	Ile	Ile	Val	Ile
		35					40					45			
Ile	Leu	Ala	Thr	Asp	Gln	Leu	His	Ser	Pro	Lys	Tyr	Phe	Phe	Leu	Thr
	50					55					60				
His	Leu	Ala	Phe	Leu	Asp	Phe	Cys	Tyr	Ser	Ser	Val	Phe	Leu	Pro	Lys
65					70					75					80
Met	Leu	Ile	Asn	Tyr	Leu	Val	Gly	Gln	Asn	Ser	Ile	Ser	Tyr	His	Gly
			85						90					95	
Cys	Leu	Leu	Gln	Tyr	Ser	Phe	Val	Asn	Met	Phe	Leu	Thr	Ala	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Ser
	115						120					125			
Pro	Leu	Tyr	Tyr	Arg	Cys	Leu	Met	Thr	Pro	Thr	Phe	Cys	Ile	Tyr	Leu
	130					135					140				
Val	Ser	Ala	Ser	Tyr	Leu	Leu	Gly	Cys	Ala	Asn	Ser	Leu	Thr	His	Leu
145					150					155					160
Arg	Ser	Leu	Leu	Asn	Leu	Thr	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His
				165					170					175	
Tyr	Phe	Cys	Asp	Ile	Pro	Leu	Leu	Phe	Gln	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
His	Asp	Ser	Glu	Val	Leu	Phe	Ile	Val	Leu	Ser	Gly	Ala	Thr	Ser	Ile
	195						200					205			
Thr	Thr	Phe	Leu	Ile	Val	Ile	Ser	Ser	Tyr	Leu	Gly	Ile	Leu	Ile	Thr
	210					215					220				
Val	Leu	Lys	Ile	His	Ser	Ala	Arg	Gly	Ser	Tyr	Lys	Ala	Phe	Ile	His
225					230					235					240
Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Ala	Ser	His	Leu	Thr	Val	Val
			245					250						255	
Thr	Leu	Phe	Tyr	Gly	Thr	Val	Asn	Ile	Asn	Tyr	Thr	Trp	Glu	Pro	Gly
		260					265					270			
Ser	Ser	Phe	Pro	Gln	Asp	Thr	Glu	Lys	Ile	Leu	Ser	Val	Phe	Tyr	Thr
	275					280						285			
Leu	Leu	Leu	Pro	Val	Leu	Asn	Leu	Phe	Ile	Tyr	Ser	Val	Arg	Asn	Lys
	290					295					300				
Glu	Ala	Lys	Glu	Ala	Met	Arg	Arg	Met	Ile	Lys	Arg	Lys	Ile	Phe	Ala
305					310					315					320
Arg															

<210> 2238

<211> 311

<212> PRT

<213> Mus musculus

<400> 2238

Met	Asp	Thr	Trp	Asn	Tyr	Ile	Lys	Glu	Phe	Asp	Phe	Ile	Leu	Met	Gly
1				5					10					15	
Leu	Thr	Asp	Ser	Lys	Glu	Ile	Gln	Leu	Val	Leu	Ala	Ile	Val	Phe	Leu
			20					25					30		
Met	Ile	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Thr	Gly	Met	Met	Leu	Ile



Met	Leu	Val	Asn	Phe	Leu	Ser	Lys	Arg	Lys	Thr	Ile	Ser	Phe	Ile	Gly	
			85						90					95		
Cys	Phe	Ile	Gln	Phe	His	Phe	Phe	Ile	Ala	Leu	Val	Ile	Thr	Asp	Tyr	
			100					105					110			
Tyr	Met	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Met	Ala	Ile	Cys	Lys	
		115					120					125				
Pro	Leu	Leu	Tyr	Thr	Ser	Lys	Met	Ser	Arg	Ser	Val	Cys	Leu	Ser	Leu	
	130					135					140					
Val	Ala	Ala	Pro	Tyr	Ile	Tyr	Gly	Phe	Ala	Asn	Gly	Leu	Ala	Gln	Thr	
145					150					155					160	
Ile	Leu	Met	Leu	Arg	Leu	Thr	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asn	His	
				165					170					175		
Phe	Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Met	Val	Leu	Ala	Cys	Ser	Asp	Thr	
			180					185					190			
Tyr	Val	Lys	Glu	Thr	Ala	Met	Phe	Val	Val	Ala	Gly	Ser	Asn	Leu	Thr	
		195				200						205				
Cys	Ser	Leu	Thr	Ile	Ile	Leu	Ile	Ser	Tyr	Ile	Phe	Ile	Phe	Thr	Ala	
	210					215					220					
Ile	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	
225					230					235					240	
Cys	Gly	Ser	His	Leu	Ile	Ala	Val	Thr	Val	Phe	Tyr	Gly	Thr	Leu	Phe	
			245						250					255		
Cys	Met	Tyr	Leu	Arg	Pro	Pro	Ser	Glu	Lys	Ser	Val	Glu	Gln	Gly	Lys	
		260						265				270				
Ile	Val	Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Asp	Leu	Ser	Asn	Ala	
	275					280						285				
Leu	Val	Val	Ser													
	290															

<210> 2240  
 <211> 247  
 <212> PRT  
 <213> Mus musculus

<400> 2240

Met	Ser	Leu	Thr	Asn	Ile	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr	Asp	Arg	
1				5					10					15		
Ser	Glu	Phe	Gln	Pro	Leu	Leu	Phe	Val	Leu	Phe	Leu	Phe	Ile	Tyr	Leu	
			20					25					30			
Val	Thr	Val	Leu	Gly	Asn	Met	Cys	Ile	Met	Ala	Leu	Ile	Arg	Leu	Asp	
		35				40						45				
Ser	His	Leu	His	Lys	Pro	Ile	Tyr	Phe	Phe	Leu	Ser	Asn	Leu	Ala	Phe	
	50					55					60					
Val	Asp	Leu	Cys	Tyr	Thr	Ser	Thr	Ala	Thr	Pro	Gln	Ile	Leu	Thr	Asn	
65					70					75					80	
Val	Thr	Ile	Ser	Phe	Ile	Gly	Cys	Phe	Gln	Cys	Tyr	Leu	Leu	Pro	Thr	
			85						90					95		
Phe	Tyr	Met	Leu	Ala	Pro	Met	Ala	Tyr	Asp	Leu	Tyr	Val	Ala	Ile	Cys	
		100					105						110			
Asn	Pro	Leu	His	Tyr	Ser	Leu	Lys	Met	Tyr	Arg	Gln	Asp	Cys	Ile	Cys	
	115					120						125				
Leu	Ala	Met	Cys	Pro	Tyr	Ile	Tyr	Gly	Phe	Ser	Asp	Gly	Leu	Phe	Gln	
	130					135					140					
Ala	Ile	Leu	Thr	Leu	Ser	Ile	Met	Ser	Tyr	Lys	Ser	Ser	Val	Ile	Asn	
145				150						155					160	
His	Phe	Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Ile	Lys	Leu	Ser	Tyr	Ser	Asp	





Leu Glu Lys Cys Tyr Leu Leu Pro Leu Met His Leu Lys Lys Gly Ile  
 305 310 315 320  
 Ser

<210> 2242  
 <211> 171  
 <212> PRT  
 <213> Mus musculus

<400> 2242  
 Tyr Ser Phe Ala Val Ala Leu Leu His Thr Val Val Thr Phe Lys Leu  
 1 5 10 15  
 Ile Tyr Cys Gly Pro Asn Ile Ile Asn His Phe Tyr Cys Asp Asp Val  
 20 25 30  
 Pro Leu Met Ala Leu Ala Cys Ser Asp Thr Ser Leu Lys Glu Ile Leu  
 35 40 45  
 Ile Phe Ile Phe Ala Gly Phe Asn Met Ile Ser Ser Leu Thr Thr Val  
 50 55 60  
 Leu Ile Ser Tyr Leu Tyr Ile Val Ala Ala Ile Leu Arg Ile Gln Ser  
 65 70 75 80  
 Thr Glu Gly Arg Cys Lys Ala Phe Ser Thr Cys Ala Ser His Leu Thr  
 85 90 95  
 Ala Val Thr Ile Phe Tyr Gly Thr Leu Ile Phe Met Tyr Leu Gln Pro  
 100 105 110  
 Lys Ser Ser His Ser Leu Asp Thr Asp Lys Met Ala Ser Val Phe Tyr  
 115 120 125  
 Thr Ile Val Ile Pro Met Leu Asn Pro Met Ile Tyr Ser Leu Arg Asn  
 130 135 140  
 Gln Glu Val Lys Ser Ala Leu Arg Lys Ala Leu Glu Lys Cys Tyr Leu  
 145 150 155 160  
 Leu Pro Leu Met His Leu Lys Lys Gly Ile Ser  
 165 170

<210> 2243  
 <211> 183  
 <212> PRT  
 <213> Mus musculus

<400> 2243  
 Phe Val Val Arg Ser Lys Met Ser Arg Val Val Cys Ile Arg Leu Ile  
 1 5 10 15  
 Ser Val Pro Tyr Val Tyr Gly Phe Ser Val Ser Leu Ile Cys Thr Leu  
 20 25 30  
 Trp Thr Tyr Gly Leu Tyr Phe Cys Gly Asn Ile Lys Ile Asn His Phe  
 35 40 45  
 Tyr Cys Ala Asp Pro Pro Leu Ile Lys Ile Ala Cys Gly Gly Val His  
 50 55 60  
 Ile Lys Glu His Thr Met Ile Val Ile Ala Gly Ile Asn Phe Thr Tyr  
 65 70 75 80  
 Ser Leu Ser Val Val Leu Ile Ser Tyr Val Leu Ile Val Val Ala Val  
 85 90 95  
 Leu Arg Met His Ser Ala Asp Gly Arg Arg Lys Ala Phe Ser Thr Cys  
 100 105 110  
 Gly Ser His Leu Thr Ala Val Ser Met Phe Tyr Gly Thr Leu Ile Phe

	115					120				125					
Met	Tyr	Leu	Arg	Arg	Pro	Thr	Glu	Glu	Ser	Val	Glu	Gln	Gly	Lys	Met
	130					135					140				
Val	Ala	Val	Phe	Tyr	Thr	Ser	Val	Ile	Pro	Met	Leu	Asn	Pro	Met	Ile
145					150					155					160
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Val	Tyr	Lys	Ile	Val
			165						170					175	
Ala	Lys	Ala	Asn	Leu	Arg	Lys									
			180												

<210> 2244  
 <211> 154  
 <212> PRT  
 <213> Mus musculus

<400> 2244															
Cys	Thr	Leu	Trp	Thr	Tyr	Gly	Leu	Tyr	Phe	Cys	Gly	Asn	Val	Lys	Ile
1				5					10					15	
Asn	His	Phe	Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Ile	Lys	Ile	Ala	Cys	Gly
		20					25					30			
Gly	Val	His	Ile	Lys	Glu	Tyr	Thr	Met	Ile	Val	Ile	Ala	Gly	Ile	Asn
		35				40					45				
Phe	Thr	Tyr	Ser	Leu	Ser	Val	Val	Leu	Ile	Ser	Tyr	Val	Leu	Ile	Val
	50				55					60					
Val	Ala	Val	Leu	Arg	Met	His	Ser	Ala	Asp	Gly	Arg	Arg	Lys	Ala	Phe
65				70					75						80
Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Ala	Val	Ser	Met	Phe	Tyr	Gly	Thr
			85				90						95		
Leu	Ile	Phe	Met	Tyr	Leu	Arg	Arg	Pro	Thr	Glu	Glu	Ser	Val	Glu	Gln
		100					105					110			
Gly	Lys	Met	Val	Ala	Val	Phe	Tyr	Thr	Ser	Val	Ile	Pro	Met	Leu	Asn
		115				120					125				
Pro	Met	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Val	Cys
	130				135				140						
Lys	Ile	Val	Ala	Lys	Ala	Asn	Leu	Arg	Lys						
145					150										

<210> 2245  
 <211> 271  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (92)...(156)  
 <223> Any amino acid

<400> 2245															
Met	Pro	Leu	Thr	Asn	Ser	Thr	Lys	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Arg	Pro	Glu	Leu	Gln	Pro	Leu	Leu	Phe	Val	Leu	Phe	Leu
		20					25					30			
Phe	Val	Tyr	Ile	Val	Thr	Val	Leu	Gly	Asn	Met	Gly	Met	Val	Ala	Leu
		35				40					45				
Ile	Arg	Leu	Asp	Ser	Arg	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu	Ser

50	Asn	Leu	Ala	Phe	Val	Asp	Leu	Cys	Tyr	Thr	Ser	Thr	Ala	Thr	Pro	Gln
65	Met	Leu	Thr	Asn	Phe	Leu	Ser	Glu	Lys	Lys	Thr	Xaa	Xaa	Xaa	Xaa	Xaa
				85						90						95
	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				100					105						110	
	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	His	Xaa	Xaa	Xaa	Xaa	Xaa
				115					120						125	
	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				130					135						140	
	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ser	Leu	Thr	Ile
145						150					155					160
	Ile	Leu	Val	Ser	Tyr	Ala	Phe	Ile	Ile	Ala	Ala	Ile	Leu	Arg	Ile	Lys
				165						170						175
	Ser	Ala	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Met
				180					185						190	
	Met	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Leu	Phe	Cys	Met	Tyr	Val	Arg
				195				200					205			
	Pro	Pro	Thr	Asp	Lys	Thr	Val	Glu	Glu	Ser	Lys	Ile	Ile	Ala	Val	Phe
				210			215					220				
	Tyr	Thr	Phe	Val	Ser	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg
225						230					235					240
	Asn	Lys	Asp	Val	Lys	Gln	Ala	Leu	Lys	Thr	Ile	Leu	Arg	Gln	Asn	Val
				245						250					255	
	Ile	Arg	Thr	Ala	Leu	Met	Arg	Pro	Pro	Ser	Asn	Lys	Leu	Gln	Gln	
				260					265						270	

<210> 2246  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2246

Met	Glu	Arg	Lys	Asn	Gln	Thr	Thr	Val	Leu	Glu	Phe	Leu	Phe	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Tyr	Leu	His	Gln	Lys	Val	Val	Leu	Phe	Ile	Ile	Phe	Phe
			20				25						30		
Leu	Val	Tyr	Leu	Val	Thr	Leu	Ala	Gly	Asn	Val	Gly	Met	Ile	Asn	Leu
			35				40					45			
Ile	Trp	Val	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Gln	Leu	Ala	Phe	Val	Asp	Val	Cys	Ser	Ser	Ser	Cys	Val	Ala	Pro	Lys
65				70					75					80	
Met	Leu	Ser	Asp	Ile	Phe	Ala	Glu	Lys	Lys	Ala	Ile	Ser	Phe	Met	Gly
			85					90						95	
Cys	Ala	Ala	Gln	Met	Trp	Phe	Phe	Gly	Leu	Phe	Val	Thr	Thr	Asp	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Tyr	Thr	Ala	Val	Cys	Lys	Pro
			115				120					125			
Leu	Leu	Tyr	Ser	Val	Ile	Met	Ser	Lys	Arg	Val	Cys	Val	Gln	Phe	Val
	130					135					140				
Ile	Gly	Pro	Tyr	Leu	Leu	Ala	Ala	Ile	Asn	Ile	Thr	Thr	His	Thr	Thr
145					150				155						160
Leu	Thr	Phe	Cys	Leu	Pro	Phe	Cys	Gly	Ser	Asn	Thr	Ile	Asn	His	Phe
				165					170					175	

Phe	Cys	Asp	Val	Ser	Pro	Leu	Leu	Ser	Leu	Ala	Cys	Ala	Asp	Thr	Trp
			180					185					190		
Ile	Asn	Lys	Val	Val	Leu	Phe	Val	Leu	Ala	Gly	Val	Ile	Gly	Val	Pro
		195					200					205			
Ser	Gly	Leu	Ile	Ile	Ile	Val	Ser	Tyr	Val	Cys	Ile	Leu	Val	Ala	Ile
	210					215					220				
Leu	Lys	Ile	Lys	Thr	Ala	Asp	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Ala	Ala	Val	Ser	Ile	Leu	Tyr	Gly	Thr	Leu	Phe	Phe
				245					250					255	
Ile	Tyr	Val	Arg	Pro	Asn	Ala	Ser	Ser	Ser	Leu	Asp	Ile	Asn	Lys	Val
		260					265						270		
Ile	Ser	Leu	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Ser	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Val	Lys	Arg	Ile	Leu
	290				295						300				
Arg	Ser	Asn	His	Phe	Leu	Thr	Gly	Ala							
305					310										

<210> 2247  
 <211> 294  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (95)...(101)  
 <223> Any amino acid

<400> 2247

Met	Asp	Glu	Glu	Asn	Ile	Thr	Glu	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Thr	Glu	Asp	Ala	Val	Leu	Gln	Gln	Val	Leu	Phe	Phe	Ile	Phe	Leu
		20					25					30			
Thr	Ile	Tyr	Ile	Ile	Ser	Leu	Leu	Gly	Asn	Ile	Thr	Leu	Ile	Ser	Leu
	35					40						45			
Ile	Cys	Ala	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Gly
	50				55					60					
Asn	Leu	Ser	Phe	Leu	Asp	Leu	Trp	Tyr	Ser	Ser	Val	Tyr	Ala	Pro	Lys
65				70				75						80	
Ile	Leu	Ile	Thr	Cys	Ile	Thr	Glu	Asp	Lys	Ser	Ile	Ser	Phe	Xaa	Xaa
			85					90						95	
Xaa	Xaa	Xaa	Xaa	Xaa	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	Asn	Pro
		100					105						110		
Leu	Leu	Tyr	Phe	Gln	Ala	Met	Ser	Pro	Arg	Leu	Arg	Ala	Ser	Leu	Val
	115					120						125			
Ala	Ala	Ser	Tyr	Leu	Gly	Gly	Phe	Ala	Asn	Ser	Thr	Ile	Ile	Thr	Ser
	130				135						140				
Glu	Thr	Phe	Thr	Leu	Ser	Phe	Cys	Arg	Asp	Asn	Ile	Ile	Asp	Asp	Phe
145				150					155					160	
Phe	Cys	Asp	Leu	Pro	Pro	Leu	Val	Lys	Leu	Ala	Cys	Asp	Val	Lys	Glu
			165					170					175		
Ser	Tyr	Gln	Ala	Val	Leu	Tyr	Phe	Ile	Leu	Ala	Ser	Asn	Val	Ile	Thr
	180						185					190			
Pro	Thr	Val	Leu	Ile	Leu	Ala	Ser	Tyr	Leu	Phe	Ile	Ile	Val	Ala	Ile
	195					200						205			

Leu Lys Ile Arg Ser Thr Gln Gly Arg Leu Lys Ala Phe Ser Thr Cys  
 210 215 220  
 Gly Ser His Leu Thr Ala Val Thr Leu Tyr Tyr Gly Ser Ile Leu Phe  
 225 230 235 240  
 Ile Tyr Ser Arg Pro Ser Thr Ser Tyr Ala Leu Glu Arg Asp Lys Val  
 245 250 255  
 Val Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro Met Ile  
 260 265 270  
 Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Leu Arg Lys Met Leu  
 275 280 285  
 Asp Ile Val Lys Leu Ser  
 290

<210> 2248  
 <211> 153  
 <212> PRT  
 <213> Mus musculus

<400> 2248  
 Thr Ala Asn Thr Phe Gln Leu Thr Phe Cys Gly Glu Asn Ile Ile Asp  
 1 5 10 15  
 His Phe Phe Cys Asp Ala Pro Pro Leu Val Lys Met Leu Cys Thr Asp  
 20 25 30  
 Thr Arg Val Tyr Glu Lys Val Leu Leu Gly Val Val Gly Phe Thr Met  
 35 40 45  
 Leu Ser Ser Ile Leu Ala Ile Leu Ile Ser Tyr Phe Asn Ile Leu Leu  
 50 55 60  
 Ala Ile Leu Arg Ile Cys Ser Ala Ser Gly Arg His Asn Ala Phe Ser  
 65 70 75 80  
 Thr Cys Ala Ser His Leu Val Ser Val Met Leu Phe Tyr Gly Pro Phe  
 85 90 95  
 Leu Phe Met Tyr Ser Arg Pro Ser Ser Thr Tyr Ser Leu Glu Lys Asp  
 100 105 110  
 Lys Val Ala Leu Phe Tyr Thr Val Asp Asn Pro Leu Phe Asn Pro  
 115 120 125  
 Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Phe Arg Lys  
 130 135 140  
 Ala Ser Gln Thr Ile Gln Pro His Thr  
 145 150

<210> 2249  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2249  
 Met Lys Asp Lys Asn Glu Thr Thr Val Ser Glu Ser Leu Phe Leu Ser  
 1 5 10 15  
 Leu Thr Asn Arg Leu Tyr Gln Lys Ser Ile Leu Phe Ile Leu Phe Leu  
 20 25 30  
 Phe Val Tyr Leu Val Thr Leu Gly Gly Gly Asn Leu Ser Met Val Thr  
 35 40 45  
 Leu Ile Trp Val Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser His Leu Ser Phe Val Asp Met Cys Ser Ser Ser Ser Ile Ala Pro

65					70					75				80
Arg	Met	Val	Tyr	Asp	Ile	Phe	Thr	Glu	Glu	Lys	Ile	Lys	His	Phe
				85					90					95
Leu	Gly	Cys	Thr	Val	Gln	Leu	Trp	Phe	Ala	Gly	Leu	Phe	Val	Gly
			100					105					110	
Gly	Cys	Phe	Leu	Leu	Ala	Asn	Met	Ala	Tyr	Glu	Trp	Tyr	Thr	Ala
		115					120					125		
Cys	Lys	Pro	Leu	Leu	Tyr	Thr	Leu	Ile	Val	Ser	Lys	Ser	Val	Cys
	130					135					140			
Gln	Phe	Val	Ile	Gly	Pro	Tyr	Leu	Leu	Ala	Ala	Ile	Asn	Ile	Thr
145					150				155					160
His	Glu	Thr	Leu	Thr	Phe	Cys	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Thr
			165						170					175
Asn	His	Phe	Phe	Cys	Asp	Ile	Ser	Pro	Met	Leu	Val	Leu	Pro	Cys
			180					185					190	
Asp	Ser	Ser	Ile	Asn	Glu	Ile	Val	Ile	Phe	Val	Leu	Asp	Gly	Thr
	195						200					205		
Gly	Met	Leu	Ser	Asp	Leu	Ile	Ile	Thr	Val	Ser	Tyr	Ile	Ser	Ile
	210				215						220			
Met	Ala	Ile	Leu	Lys	Ile	Gln	Thr	Thr	Asp	Glu	Arg	Met	Lys	Asp
225					230				235					240
Ser	Ser	Cys	Ser	Ser	His	Leu	Ala	Gly	Val	Ser	Ile	Gln	Tyr	Gly
			245					250						255
Val	Phe	Phe	Ile	Tyr	Val	Gln	Pro	Ser	Thr	Tyr	Thr	Ser	Leu	Asn
			260					265					270	
Asn	Lys	Val	Ile	Ser	Leu	Phe	Tyr	Thr	Val	Met	Ile	Ser	Met	Leu
	275						280				285			
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Met	Lys	Asn	Ala	Leu
	290				295						300			
Arg	Lys	Val	Gln	Arg	Lys	His	Phe	Ser	Arg	Asp	Trp			
305					310					315				

<210> 2250  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 2250

Met	Tyr	Phe	Leu	Ser	Ile	Ile	Asn	Ile	Met	Lys	Arg	Gly	Asn	Val	Ser
1				5				10					15		
Glu	Ser	Thr	Glu	Phe	His	Leu	Met	Gly	Leu	Ser	Asp	Asn	Gln	Glu	Leu
			20					25					30		
Gln	Pro	Val	Leu	Phe	Gly	Val	Phe	Leu	Thr	Ile	Tyr	Leu	Ile	Thr	Leu
		35				40					45				
Phe	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala	Thr	Ile	Phe	Asp	Ser	Asn	Leu
	50				55					60					
His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser	Asn	Leu	Ser	Phe	Ile	Asp	Ile
65					70				75					80	
Cys	Phe	Thr	Thr	Thr	Thr	Ile	Pro	Lys	Met	Leu	Val	Asn	Ile	Gln	Ala
			85					90						95	
Gln	Val	Asn	Ser	Ile	Ser	Tyr	Thr	Gly	Cys	Leu	Thr	Gln	Ile	Cys	Phe
		100						105					110		
Val	Leu	Ala	Phe	Ala	Gly	Leu	Glu	Asn	Glu	Ile	Leu	Val	Met	Met	Ala
	115					120						125			
Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	Pro	Leu	Arg	Tyr	Thr	Val	Ile
	130					135					140				

Met	Asn	Pro	Lys	Leu	Cys	Gly	Val	Met	Val	Leu	Leu	Ser	Leu	Leu	Ser
145					150					155					160
Ile	Leu	Asp	Ala	Leu	Leu	His	Thr	Leu	Met	Ala	Leu	Arg	Leu	Ser	Phe
				165					170					175	
Cys	Thr	Lys	Leu	Glu	Ile	Pro	His	Phe	Phe	Cys	Glu	Leu	Ala	His	Ile
			180					185					190		
Leu	Lys	Leu	Ala	Cys	Ser	Asn	Ile	Leu	Ile	Asn	Asn	Ile	Leu	Val	Tyr
	195						200					205			
Leu	Val	Thr	Ser	Leu	Phe	Gly	Ile	Leu	Pro	Leu	Ser	Gly	Ile	Ile	Tyr
	210					215					220				
Ser	Tyr	Thr	Lys	Ile	Ile	Ser	Ser	Val	Leu	Lys	Ile	Pro	Ser	Ala	Ala
225					230					235					240
Gly	Lys	Tyr	Lys	Val	Phe	Ser	Thr	Cys	Val	Ser	His	Leu	Val	Val	Val
			245						250					255	
Ile	Leu	Phe	Tyr	Gly	Thr	Gly	Phe	Gly	Val	Tyr	Leu	Ser	Ser	Ala	Gly
			260					265					270		
Thr	His	Ser	Ser	Arg	Met	Ser	Ala	Ile	Ala	Ser	Val	Met	Tyr	Thr	Val
		275					280					285			
Val	Thr	Pro	Thr	Met	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp
	290				295						300				
Met	Val	Asn	Ala	Phe	Lys	Lys	Leu	Ile	Ser	Arg	Ile	Thr	Thr	Ser	Leu
305					310					315					320

<210> 2251  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2251

Met	Lys	Arg	Gly	Asn	Val	Ser	Glu	Ser	Thr	Glu	Phe	His	Leu	Met	Gly
1				5					10					15	
Leu	Ser	Asp	Asn	Gln	Glu	Leu	Gln	Pro	Val	Leu	Phe	Gly	Val	Phe	Leu
			20					25					30		
Ser	Ile	Tyr	Leu	Ile	Thr	Met	Phe	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35				40						45			
Thr	Val	Phe	Asp	Ser	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser
	50				55						60				
Asn	Leu	Ser	Phe	Ile	Asp	Ile	Cys	Phe	Thr	Thr	Thr	Thr	Ile	Pro	Lys
65				70					75						80
Met	Leu	Val	Asn	Ile	Gln	Ala	Gln	Val	Asn	Ser	Ile	Ser	Tyr	Thr	Gly
			85					90					95		
Cys	Leu	Thr	Gln	Ile	Cys	Phe	Val	Leu	Ala	Phe	Ala	Gly	Leu	Glu	Asn
			100					105					110		
Gly	Ile	Leu	Val	Met	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Arg	Tyr	Thr	Val	Ile	Met	Asn	Pro	Lys	Ile	Cys	Gly	Val	Met
	130					135					140				
Val	Leu	Leu	Ser	Phe	Leu	Ile	Ser	Ile	Leu	Asp	Ala	Leu	Leu	His	Thr
145					150					155					160
Leu	Met	Ala	Leu	His	Leu	Ser	Phe	Cys	Thr	Lys	Val	Glu	Ile	Pro	His
			165						170					175	
Phe	Phe	Cys	Glu	Leu	Ala	His	Ile	Leu	Lys	Leu	Ala	Cys	Ser	Asn	Ile
		180						185					190		
Leu	Ile	Asn	Asn	Ile	Leu	Val	Tyr	Leu	Val	Thr	Ser	Leu	Leu	Gly	Val
	195						200					205			
Leu	Pro	Leu	Ser	Gly	Ile	Ile	Tyr	Ser	Tyr	Thr	Arg	Ile	Ile	Ser	Ser



210		215		220											
Val	Leu	Lys	Ile	Pro	Ser	Ala	Ala	Gly	Lys	Tyr	Lys	Val	Phe	Ser	Ile
225				230						235					240
Cys	Ala	Ser	His	Leu	Val	Val	Val	Ile	Leu	Phe	Tyr	Gly	Thr	Gly	Phe
			245						250					255	
Gly	Val	Tyr	Leu	Ser	Ser	Ala	Gly	Thr	His	Ser	Ser	Arg	Lys	Ser	Ala
		260						265					270		
Ile	Ala	Ser	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Met	Asn	Pro	Phe
	275					280						285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Val	Ser	Ala	Phe	Lys	Lys	Leu
	290				295						300				
Ile	Ser	Arg	Ile	Thr	Thr	Ser	Leu								
305					310										

<210> 2252  
 <211> 117  
 <212> PRT  
 <213> Mus musculus

<400> 2252

Ile	Glu	Phe	Tyr	Phe	Val	Phe	Ser	Val	Leu	Leu	Leu	Glu	Arg	Cys	Asn
1				5					10					15	
Ser	Glu	Thr	Lys	Gln	Leu	Phe	Leu	Glu	Phe	His	Leu	Leu	Gly	Leu	Thr
		20						25					30		
Asn	Asp	Pro	Glu	Leu	Glu	Pro	Leu	Ile	Tyr	Gly	Leu	Phe	Arg	Leu	Tyr
	35					40					45				
Leu	Phe	Thr	Ile	Leu	Gly	Asn	Ile	Val	Ile	Leu	Leu	Ala	Ile	Phe	Ser
	50				55					60					
Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Arg	Leu	Ser
65				70				75						80	
Ile	Asn	Asp	Val	Cys	Leu	Ser	Ile	Ser	Thr	Ile	Pro	Lys	Met	Leu	Val
		85					90						95		
Asn	Ser	Gln	Ala	Gln	Asp	Asn	Lys	Ile	Ser	Tyr	Ile	Gln	Cys	Ile	Ser
	100					105						110			
Gln	Ile	Tyr	Phe	Val											
	115														

<210> 2253  
 <211> 178  
 <212> PRT  
 <213> Mus musculus

<400> 2253

Val	Ile	Ser	Phe	Leu	Val	Ala	Ala	Arg	Ser	Lys	Ser	Gly	Ser	Ala	Cys
1				5					10					15	
Phe	Lys	Val	His	Ser	Leu	Met	Val	Leu	Gln	Leu	Ser	Phe	Gly	Thr	Asn
		20						25					30		
Leu	Glu	Ile	His	Asn	Phe	Phe	Cys	Glu	Leu	Ala	Gln	Val	Leu	Asn	Leu
	35					40					45				
Ala	Cys	Phe	Asp	Thr	Phe	Ile	Asn	Asn	Leu	Leu	Ile	Leu	Val	Ala	Val
	50				55						60				
Phe	Ile	Phe	Met	Ser	Gly	Gln	Val	Cys	Gly	Val	Ile	Phe	Ser	Tyr	Thr
65				70				75						80	
Tyr	Ile	Leu	Leu	Ser	Val	Leu	Arg	Met	Thr	Ser	Gln	Thr	Gly	Lys	Lys
		85						90					95		

Lys	Ala	Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Ser	Val	Ile	Phe	Leu	Phe
			100					105					110		
Tyr	Gly	Ser	Cys	Leu	Gly	Val	Tyr	Phe	Ser	Ser	Ser	Val	Ala	Glu	Phe
		115					120					125			
Thr	Arg	His	Ser	Ala	Val	Ala	Ser	Val	Met	Tyr	Thr	Val	Asp	Pro	Gln
	130					135					140				
Met	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	His	Glu	Glu	Ser
145					150					155					160
Leu	Ser	Glu	Ile	His	Trp	Leu	Asp	Ile	Leu	Gly	Ser	Pro	Leu	Cys	Ser
				165					170					175	
Leu	Ile														

<210> 2254  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2254

Met	Glu	Leu	Cys	Asn	Val	Thr	Ser	Thr	Leu	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Glu	Asp	Pro	Glu	Leu	Gln	Pro	Val	Leu	Phe	Ala	Leu	Phe	Leu
			20					25					30		
Leu	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Ile	Ser	Ser	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Tyr
	50					55					60				
Asn	Leu	Ser	Leu	Ser	Asp	Met	Gly	Phe	Ser	Ser	Thr	Thr	Ile	Pro	Lys
65					70					75					80
Met	Leu	Ile	Asn	Thr	Gln	Thr	His	Asn	Lys	Ser	Ile	Thr	Tyr	Ala	Ala
				85					90					95	
Cys	Leu	Thr	Gln	Val	Pro	Phe	Phe	Phe	Leu	Phe	Gly	Cys	Met	Asp	Ser
			100					105					110		
Leu	Leu	Leu	Thr	Val	Lys	Ala	Cys	Asp	Trp	Val	Ala	Ile	Cys	Tyr	Ser
		115					120					125			
Leu	Tyr	Tyr	Gln	Ile	Ile	Leu	Asn	Pro	Cys	Leu	Cys	Lys	Cys	Leu	Val
	130					135					140				
Ile	Val	Ser	Phe	Phe	Ile	Ser	Pro	Met	Asp	Ser	Gln	Val	His	Phe	Phe
145					150					155					160
Met	Val	Ser	Gln	Leu	Lys	Phe	Cys	Thr	Asn	Leu	Glu	Ile	Pro	His	Phe
				165					170					175	
Phe	Ser	Asp	Gly	Thr	Glu	Ile	Leu	Lys	Leu	Ala	Cys	Thr	Asp	Ile	Thr
			180					185					190		
Ile	Ile	Asn	Ile	Ala	Ile	Phe	Leu	Val	Asn	Ile	Ile	Ala	Gly	Phe	Leu
		195					200					205			
Pro	Ala	Leu	Gly	Ile	Phe	Tyr	Ser	Tyr	Tyr	Lys	Ile	Ile	Ser	Ser	Ile
		210				215					220				
Val	Arg	Val	Leu	Ser	Ser	Leu	Gln	Lys	Tyr	Lys	Asp	Phe	Ser	Thr	Cys
225					230					235					240
Gly	Phe	His	Leu	Ser	Val	Val	Cys	Leu	Phe	Tyr	Gln	Thr	Gly	Ile	Gly
				245					250					255	
Val	Tyr	Leu	Ser	Thr	Tyr	Ile	Ser	Ser	Ser	Ser	Lys	Glu	Cys	Val	Val
			260				265						270		
Ala	Leu	Val	Ile	Tyr	Thr	Met	Val	Val	Pro	Met	Met	Asn	Pro	Phe	Ile
		275					280					285			
Tyr	Ile	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Asn	Asn	Leu	Gln	Lys	Ile	Phe

290  
Thr Gln Ile Lys  
305

295

300

<210> 2255  
<211> 321  
<212> PRT  
<213> Mus musculus

<400> 2255  
Met Glu Ser Tyr Asn Leu Thr Arg Thr Leu Glu Phe Leu Leu Leu Gly  
1 5 10 15  
Leu Ser Glu Asp Pro Glu Leu Gln Pro Val Leu Phe Val Leu Phe Leu  
20 25 30  
Leu Ile Tyr Leu Leu Thr Val Leu Gly Asn Val Leu Ile Ile Leu Ala  
35 40 45  
Ile Ser Ser Asp Ser Arg Leu His Ser Pro Met Tyr Phe Phe Leu Phe  
50 55 60  
Asn Leu Ser Leu Ser Asp Met Gly Phe Ser Ser Thr Thr Met Pro Lys  
65 70 75 80  
Met Leu Val Asn Met Gln Thr His Lys Lys Ser Ile Thr His Ser Glu  
85 90 95  
Cys Leu Thr Gln Val Ser Phe Phe Phe Leu Phe Gly Asp Met Gly Gly  
100 105 110  
Leu Leu Leu Thr Val Met Ala Tyr Asp Arg Trp Val Ala Ile Cys His  
115 120 125  
Pro Leu His Tyr Gln Val Ile Leu Asn Pro Cys Leu Cys Arg Cys Leu  
130 135 140  
Val Ile Ala Ser Phe Phe Ile Ser Leu Val Ser Ser Gln Ile His Cys  
145 150 155 160  
Leu Met Val Ser Gln Leu Thr Phe Cys Thr Asn Met Glu Ile Pro His  
165 170 175  
Phe Phe Cys Asp Val Thr Glu Leu Leu Lys Leu Ala Cys Ser Asp Thr  
180 185 190  
Ser Ile Asn Asn Ile Val Arg Phe Leu Leu Ser Ile Ile Leu Gly Phe  
195 200 205  
Leu Pro Val Ser Gly Ile Phe Tyr Ser Tyr Tyr Lys Ile Thr Ser Ser  
210 215 220  
Ile Phe Lys Val Pro Ser Leu Leu Gly Lys Tyr Lys Ala Phe Ser Thr  
225 230 235 240  
Cys Gly Ser His Leu Ser Val Val Cys Leu Phe Tyr Gly Thr Gly Ile  
245 250 255  
Gly Val Tyr Leu Ser Ser Thr Val Ser Ser Ser Ser Arg Lys Ser Val  
260 265 270  
Val Ala Ser Val Met Tyr Thr Met Val Val Pro Met Met Asn Pro Phe  
275 280 285  
Ile Tyr Ser Leu Arg Asn Arg Asp Ile Lys Lys Ala Leu His Lys Ile  
290 295 300  
Val Lys Gln Ile Met Leu Thr Thr Leu Asn Asp Pro Leu Ile Tyr Ser  
305 310 315 320  
Phe

<210> 2256  
<211> 195

<212> PRT  
<213> Mus musculus

<400> 2256

Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Thr
1				5					10					15	
Thr	Ile	Ile	Ser	Asn	Lys	Ile	Cys	His	Gln	Leu	Ile	Ile	Ser	Ser	Trp
			20					25					30		
Leu	Ala	Gly	Phe	Leu	Val	Ile	Phe	Pro	Pro	Leu	Ala	Met	Gly	Leu	Glu
		35					40					45			
Leu	Asp	Phe	Cys	Asp	Ser	Asn	Ile	Ile	Asp	His	Phe	Thr	Cys	Asp	Ser
	50					55					60				
Ala	Pro	Leu	Leu	Gln	Ile	Ser	Cys	Thr	Asp	Thr	Ser	Thr	Leu	Glu	Leu
65					70				75					80	
Met	Ser	Phe	Ile	Leu	Ala	Leu	Ile	Thr	Leu	Met	Thr	Thr	Leu	Met	Leu
				85				90						95	
Ile	Ile	Leu	Ser	Tyr	Ile	Cys	Ile	Leu	Arg	Thr	Ile	Leu	Lys	Phe	Pro
			100					105					110		
Ser	Ala	Lys	Gln	Arg	Glu	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Met
		115					120					125			
Ile	Val	Ile	Ser	Ile	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met	Tyr	Val	Lys
	130					135					140				
Thr	Ser	Ala	Lys	Ala	Gly	Val	Ala	Leu	Thr	Lys	Gly	Val	Ala	Met	Leu
145					150					155				160	
Asn	Thr	Ser	Val	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg
				165					170					175	
Asn	Gln	Gln	Val	Lys	Gln	Ala	Phe	Lys	Asp	Leu	Val	Arg	Arg	Lys	Leu
			180					185					190		
Ala	Ser	Lys													
		195													

<210> 2257  
<211> 312  
<212> PRT  
<213> Mus musculus

<400> 2257

Met	Lys	Asn	His	Ser	Val	Ile	Thr	Glu	Phe	Val	Leu	Leu	Gly	Ile	Ser
1				5					10					15	
Asp	Asp	Pro	Glu	Val	Gln	Val	Val	Ile	Phe	Ile	Leu	Leu	Phe	Ile	Ala
			20					25					30		
Tyr	Ile	Leu	Ser	Val	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Ile	Leu	Thr	Leu
	35					40						45			
Leu	Asp	Ser	Gln	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Ile	Phe	Thr	Ser	Val	Ser	Ile	Pro	Arg	Phe	Leu
65					70				75					80	
Glu	Ser	Ile	Ile	Thr	Lys	Val	Lys	Thr	Ile	Ser	Tyr	Asn	Asn	Cys	Leu
				85				90						95	
Ala	Gln	Leu	Tyr	Phe	Phe	Ile	Ser	Met	Gly	Val	Ser	Glu	Phe	Phe	Leu
			100					105					110		
Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Thr	Leu	Ile	Met	Asn	Gln	Lys	Val	Cys	Thr	Leu	Leu	Val	Leu
	130					135					140				
Ala	Ser	Trp	Leu	Ala	Gly	Phe	Leu	Thr	Ile	Phe	Pro	Pro	Leu	Met	Leu

145		150		155		160									
Val	Leu	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Asn	Val	Ile	Asp	His	Phe	Ser
			165						170					175	
Cys	Asp	Tyr	Phe	Pro	Ile	Leu	Gln	Leu	Ser	Cys	Ser	Asp	Thr	Arg	Ser
			180					185					190		
Leu	Glu	Met	Ile	Gly	Phe	Tyr	Phe	Ala	Phe	Ile	Thr	Leu	Leu	Phe	Thr
		195					200					205			
Leu	Ala	Leu	Val	Ile	Leu	Ser	Tyr	Ile	Ser	Ile	Ile	Ser	Thr	Ile	Leu
	210					215					220				
Arg	Phe	Pro	Ser	Ala	Ser	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Met	Ile	Val	Ile	Ser	Ile	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met
			245					250					255		
Tyr	Val	Lys	Pro	Ser	Ala	Asn	Glu	Arg	Ala	Ser	Leu	Thr	Lys	Gly	Val
			260					265					270		
Ala	Val	Leu	Asn	Thr	Ser	Ile	Ala	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
	275					280					285				
Ser	Leu	Arg	Asn	Glu	Gln	Val	Lys	Gln	Ala	Phe	Lys	Asp	Leu	Ile	Asn
	290					295					300				
Lys	Val	Val	Leu	Tyr	Arg	Ser	Lys								
305					310										

<210> 2258  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2258

Met	Lys	Asn	Gln	Ser	Met	Glu	Leu	Asp	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Leu	Gln	Ile	Val	Val	Phe	Leu	Phe	Leu	Phe	Leu	Asn
			20					25					30		
Tyr	Met	Met	Ser	Leu	Val	Gly	Asn	Leu	Ile	Ile	Val	Leu	Leu	Thr	Leu
	35					40						45			
Leu	Asp	Pro	Arg	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50				55					60					
Ser	Tyr	Leu	Glu	Ile	Met	Phe	Thr	Thr	Val	Cys	Ile	Pro	Lys	Phe	Leu
65				70					75					80	
Thr	Ala	Ile	Val	Thr	Gly	Asp	Lys	Thr	Val	Ser	Tyr	Asn	Asn	Cys	Ala
			85					90						95	
Thr	Gln	Leu	Phe	Phe	Tyr	Leu	Leu	Leu	Gly	Val	Thr	Glu	Phe	Tyr	Leu
		100						105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu
	115					120						125			
His	Tyr	Pro	Ile	Ile	Met	Asn	Ser	Lys	Val	Cys	His	Gln	Leu	Val	Leu
	130				135					140					
Ser	Ser	Trp	Val	Thr	Gly	Phe	Leu	Ile	Ile	Phe	Pro	Pro	Leu	Ala	Met
145					150					155				160	
Gly	Leu	Lys	Leu	Asp	Phe	Cys	Asp	Ser	Arg	Ile	Ile	Asp	His	Phe	Met
			165					170					175		
Cys	Glu	Thr	Ser	Pro	Ile	Leu	Gln	Ile	Ser	Cys	Thr	Asp	Thr	His	Phe
		180						185					190		
Ile	Glu	Met	Ser	Phe	Val	Leu	Ala	Val	Val	Thr	Leu	Val	Val	Thr	
	195					200					205				
Leu	Val	Leu	Val	Ser	Leu	Ser	Tyr	Ser	Phe	Ile	Ile	Lys	Thr	Ile	Met
210					215						220				

Ser	Phe	Pro	Ser	Ala	Gln	Gln	Arg	Thr	Lys	Ala	Phe	Ser	Thr	Cys	Thr
225					230					235					240
Ser	His	Met	Ile	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Met
				245					250					255	
Tyr	Ile	Lys	Pro	Ser	Ala	Arg	Glu	Arg	Val	Ser	Val	Ser	Lys	Gly	Val
			260				265						270		
Ala	Leu	Leu	Tyr	Thr	Ser	Ile	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Glu	Val	Phe	Trp	Asp	Ile	Leu	Arg
	290					295					300				
Lys	Thr	Leu	Gly	Phe	Leu	Lys	Asn	Lys	Val						
305					310										

<210> 2259  
 <211> 145  
 <212> PRT  
 <213> Mus musculus

<400> 2259															
Phe	Cys	Ala	Ser	Asn	Val	Ile	Asp	His	Phe	Leu	Cys	Asp	Val	Ser	Pro
1				5					10					15	
Leu	Leu	Gln	Leu	Ser	Cys	Ser	Asp	Thr	Ser	Leu	Leu	Glu	Val	Met	Ala
			20					25					30		
Phe	Ile	Leu	Ala	Leu	Met	Thr	Leu	Ile	Val	Thr	Leu	Ile	Ile	Val	Ile
		35					40					45			
Leu	Ser	Tyr	Ala	His	Ile	Val	Lys	Thr	Ile	Ile	Lys	Phe	Pro	Ser	Ala
	50					55					60				
Gln	Gln	Lys	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Met	Ile	Val
65					70					75				80	
Val	Ser	Leu	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Ile	Tyr	Ile	Lys	Pro	Ser
				85					90					95	
Ala	Asn	Glu	Arg	Val	Thr	Leu	Ser	Lys	Gly	Ile	Ala	Val	Leu	Asn	Thr
			100					105					110		
Ser	Val	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn	Lys
		115					120					125			
Gln	Val	Lys	Gln	Ala	Cys	Gly	Ala	Ile	Leu	Arg	Lys	Ile	Phe	Ser	Ala
	130					135					140				
Ser															
145															

<210> 2260  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2260															
Met	Ser	Val	Ala	Asn	Glu	Ser	Ile	Ser	Arg	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Asp	Arg	Pro	Trp	Leu	Glu	Leu	Pro	Leu	Phe	Val	Val	Phe	Leu
			20					25					30		
Val	Ser	Tyr	Ile	Leu	Thr	Ile	Phe	Gly	Asn	Met	Met	Ile	Ile	Leu	Val
		35					40					45			
Ser	Arg	Leu	Asp	Ser	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50					55					60				
Asn	Leu	Ser	Leu	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln

65					70					75				80
Met	Leu	Ile	Asn	Ile	Cys	Ser	Thr	Arg	Lys	Val	Ile	Ser	Tyr	Gly
				85					90					95
Cys	Val	Ala	Gln	Leu	Phe	Ile	Phe	Leu	Ala	Leu	Gly	Ser	Thr	Glu
			100					105					110	Cys
Phe	Leu	Leu	Gly	Val	Met	Ser	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys
		115					120					125		Arg
Pro	Leu	His	Tyr	Ser	Val	Ile	Met	His	Gln	Arg	Arg	Cys	Leu	Gln
	130					135					140			Leu
Ala	Ala	Ala	Cys	Trp	Ile	Ser	Gly	Phe	Ser	Asn	Ser	Val	Leu	Gln
145					150					155				160
Thr	Trp	Thr	Leu	Gln	Met	Pro	Leu	Cys	Gly	His	Lys	Glu	Val	Asp
			165						170					175
Phe	Phe	Cys	Glu	Val	Pro	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Val	Asp
		180						185					190	Thr
Thr	Ala	Asn	Glu	Ala	Glu	Leu	Phe	Phe	Ile	Ser	Val	Leu	Phe	Leu
	195						200					205		Leu
Ile	Pro	Val	Thr	Leu	Ile	Leu	Ile	Ser	Tyr	Ala	Phe	Ile	Val	Gln
	210				215					220				Ala
Val	Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Gly
225					230					235				240
Cys	Gly	Ser	His	Leu	Ile	Val	Val	Val	Leu	Phe	Tyr	Gly	Thr	Ala
			245						250					255
Tyr	Met	Tyr	Leu	Gln	Pro	Pro	Ser	Pro	Thr	Ser	Lys	Asp	Arg	Gly
		260					265					270		Lys
Met	Val	Ser	Leu	Phe	Tyr	Gly	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro
	275						280					285		Leu
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Phe	Lys	Arg
	290				295						300			Leu
Val	Thr	Arg	Ile	Ile	Leu	Ser	Arg	Lys						
305					310									

<210> 2261  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2261															
Met	Asn	Arg	Ala	Asn	Gly	Ser	Ile	Phe	Ser	Gly	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Asn	Arg	Pro	Gln	Leu	Glu	Thr	Ala	Leu	Phe	Phe	Ala	Met	Leu
		20						25					30		
Leu	Ile	Tyr	Phe	Leu	Ser	Phe	Leu	Gly	Asn	Ser	Thr	Ile	Ile	Leu	Leu
	35					40					45				
Ser	Val	Ile	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50				55					60					
Asn	Leu	Ser	Phe	Met	Asp	Leu	Cys	Leu	Thr	Thr	Arg	Thr	Val	Pro	Gln
65				70					75					80	
Thr	Leu	Phe	Asn	Phe	Lys	Gly	Lys	Asp	Lys	Thr	Ile	Thr	Tyr	Gly	Gly
			85					90						95	
Cys	Val	Thr	Gln	Leu	Phe	Ile	Ala	Leu	Gly	Leu	Gly	Gly	Val	Glu	Cys
		100					105						110		
Ile	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg
	115				120						125				
Pro	Leu	His	Tyr	Met	Val	Ile	Met	His	Pro	Gln	Leu	Cys	Ile	Lys	Met
	130				135						140				

Val	Ile	Thr	Ala	Trp	Leu	Thr	Gly	Phe	Gly	Asn	Ser	Val	Val	Gln	Thr
145					150					155					160
Ala	Leu	Thr	Met	Ser	Arg	Pro	Leu	Cys	Gly	Arg	Asn	Gln	Leu	Asp	His
				165					170					175	
Phe	Phe	Cys	Glu	Val	Pro	Val	Met	Leu	Lys	Leu	Thr	Cys	Ala	Asn	Ser
			180					185					190		
Phe	Ile	Asn	Glu	Ala	Glu	Leu	Phe	Ala	Val	Ser	Val	Phe	Phe	Leu	Val
		195					200					205			
Val	Pro	Leu	Ser	Leu	Ile	Leu	Val	Ser	Tyr	Gly	Tyr	Ile	Thr	His	Ala
	210					215					220				
Val	Leu	Lys	Ile	Lys	Ser	Ala	Gln	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Leu	Val	Val	Ile	Ile	Phe	Phe	Gly	Thr	Leu	Ile
				245					250					255	
Ser	Met	Tyr	Leu	Gln	Pro	Pro	Ser	Ser	Tyr	Ser	Gln	Asp	Val	Asn	Lys
			260				265						270		
Ser	Met	Ala	Leu	Phe	Tyr	Thr	Leu	Val	Thr	Pro	Leu	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Arg	Glu	Val	Lys	Ser	Ala	Leu	Arg	Arg	Ile
	290					295					300				
Met	Gly	Arg	Arg	Thr	Asp	Ser	Thr	Lys	Ser						
305					310										

<210> 2262  
 <211> 231  
 <212> PRT  
 <213> Mus musculus

<400> 2262

Met	Ser	Asn	His	Thr	Arg	Val	Thr	His	Phe	Ile	Leu	Arg	Gly	Phe	Ser
1				5					10					15	
Asp	Val	Pro	Gln	Leu	Arg	Leu	Val	Leu	Ile	Pro	Phe	Phe	Leu	Phe	Phe
			20					25					30		
Tyr	Thr	Phe	Gly	Ile	Leu	Gly	Asn	Phe	Ser	Ile	Ile	Thr	Ala	Val	Thr
		35				40						45			
Arg	Asp	Ser	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Lys	Asn	Leu
	50					55					60				
Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Thr	Ser	Ala	Thr	Ile	Pro	Lys	Ala	Val
65				70					75						80
Val	Ile	Ser	Leu	Thr	Gly	Ser	Gly	Val	Ile	Ser	Tyr	Gln	Glu	Cys	Ala
			85					90						95	
Ala	Gln	Leu	Tyr	Ile	Ile	Phe	Thr	Phe	Ala	Cys	Thr	Glu	Cys	Phe	Leu
		100						105					110		
Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Cys	Leu	Ala	Ile	Leu	Arg	Pro	Leu
		115					120					125			
Ile	Tyr	Gly	Thr	Ile	Met	Ser	Gln	Lys	Tyr	Cys	Ser	Ala	Leu	Val	Val
	130					135					140				
Thr	Ala	Trp	Val	Gly	Gly	Ala	Ile	Tyr	Ser	Ala	Phe	His	Thr	Phe	Asn
145					150					155					160
Thr	Phe	Ser	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe	Phe
				165					170					175	
Cys	Asp	Met	Pro	Pro	Val	Met	Arg	Leu	Ser	Cys	Thr	Asp	Tyr	His	Leu
		180					185						190		
Thr	Glu	Glu	Val	Gly	Phe	Ala	Val	Ser	Ser	Cys	Ile	Val	Met	Ser	Ser
		195					200					205			
Phe	Val	Leu	Thr	Val	Val	Ser	Tyr	Ile	Gly	Ile	Val	Ala	Thr	Val	Leu



210	215	220
Arg Ile Pro Ser Val Glu Gly		
225	230	

<210> 2263  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 2263

Met	Glu	Ser	Gly	Asn	Arg	Ser	Cys	Gly	Thr	Asp	Phe	Thr	Leu	Val	Gly
1				5				10					15		
Leu	Phe	Gln	Asp	Gly	His	Met	Asp	Thr	Phe	Leu	Phe	Thr	Val	Ile	Ser
		20					25						30		
Ile	Leu	Phe	Ala	Val	Ala	Leu	Ile	Gly	Asn	Ile	Thr	Leu	Val	Ile	Leu
		35				40						45			
Ile	Arg	Leu	Asp	Gln	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser
	50					55					60				
Gln	Leu	Ser	Ile	Met	Asp	Met	Met	Tyr	Ile	Ser	Thr	Thr	Val	Pro	Lys
65					70				75					80	
Met	Ala	Ala	Asn	Phe	Leu	Ser	Asp	Thr	Lys	Ala	Ile	Ser	Phe	Leu	Gly
			85					90						95	
Cys	Val	Ile	Gln	Thr	Phe	Val	Phe	Leu	Thr	Leu	Gly	Gly	Ser	Glu	Ala
		100						105					110		
Leu	Leu	Leu	Gly	Phe	Met	Ser	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Pro	Val	Phe	Met	Ser	Arg	Lys	Ile	Cys	Cys	Ser	Met
	130					135					140				
Val	Ala	Gly	Ala	Trp	Ser	Ser	Ser	Ser	Ile	Thr	Ala	Ser	Val	His	Thr
145					150					155				160	
Val	Tyr	Val	Phe	Gln	Leu	Pro	Phe	Cys	Gly	Ser	Arg	Met	Val	Asn	His
			165						170					175	
Phe	Phe	Cys	Glu	Val	Pro	Ser	Leu	Leu	Pro	Leu	Val	Cys	Glu	Asp	Thr
		180					185					190			
Ser	Gln	Tyr	Glu	His	Thr	Val	Leu	Val	Ser	Gly	Leu	Val	Ile	Leu	Met
	195						200					205			
Leu	Pro	Phe	Leu	Ala	Ile	Leu	Ala	Ser	Tyr	Ala	Arg	Ile	Leu	Val	Val
	210					215					220				
Val	Leu	Gln	Met	Gly	Ser	Gly	Gln	Gly	Gln	Ser	Arg	Ala	Val	Ser	Thr
225					230					235				240	
Cys	Ser	Ser	His	Leu	Thr	Val	Ala	Ser	Leu	Phe	Tyr	Val	Thr	Thr	Leu
			245						250					255	
Ser	Thr	Tyr	Thr	Gln	Pro	His	Thr	Leu	His	Ser	Pro	Gly	Arg	Asp	Lys
		260						265					270		
Val	Val	Ala	Val	Leu	Tyr	Ser	Ile	Val	Thr	Pro	Val	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Met	Gly	Ala	Leu	Arg	Arg	Gln
	290					295					300				
Met	Lys														
305															

<210> 2264  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (132)...(270)  
 <223> Any amino acid

<400> 2264

Met	Asp	Pro	Ser	Asn	Tyr	Ser	Thr	Leu	His	Val	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Asp	His	Pro	His	Leu	Glu	Met	Ile	Leu	Ser	Gly	Val	Val	Thr
			20					25					30		
Phe	Phe	Tyr	Ile	Ile	Thr	Leu	Val	Gly	Asn	Thr	Ala	Ile	Ile	Leu	Ala
		35					40					45			
Ser	Leu	Leu	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Phe	Thr	Thr	Ser	Ile	Val	Pro	Gln
65					70					75					80
Met	Leu	Val	Asn	Leu	Trp	Gly	Pro	Glu	Lys	Thr	Ile	Ser	Ser	Val	Gly
			85						90					95	
Cys	Ile	Val	Gln	Leu	Tyr	Val	Tyr	Met	Trp	Leu	Gly	Ser	Ile	Glu	Cys
			100					105					110		
Leu	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Phe	Thr	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	His	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	130					135						140			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
145					150					155					160
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				165					170					175	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			180					185					190		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	195						200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	210					215					220				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
225					230					235					240
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				245					250					255	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Xaa	Xaa	Xaa	Xaa	Thr	Pro
			260					265					270		
Ser	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Arg	Asp	Met	Lys	Asp
		275					280					285			
Ala	Leu	Lys	Lys	Leu	Met	Arg	Phe	Tyr	His	Arg	Phe	Ala	Glu	Val	Arg
	290					295					300				
Arg	Asn														
305															

<210> 2265  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2265

Ser	Ile	Tyr	Glu	Asn	Gln	Ser	Ser	Thr	Val	Thr	Phe	Ile	Leu	Val	Gly
1				5					10					15	

Phe	Ser	Glu	Tyr	Pro	Asp	Ile	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Leu
			20					25					30		
Thr	Ile	Tyr	Thr	Val	Thr	Ala	Leu	Gly	Asn	Leu	Gly	Met	Ile	Ala	Ile
		35					40					45			
Ile	Arg	Leu	Ser	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Thr	Val	Val	Thr	Pro	Lys
65					70					75					80
Leu	Leu	Glu	Asn	Leu	Ile	Val	Glu	Asp	Arg	Lys	Ile	Ser	Phe	Thr	Gly
			85						90					95	
Cys	Val	Met	Gln	Phe	Phe	Phe	Ala	Cys	Ile	Phe	Val	Val	Thr	Glu	Thr
			100					105					110		
Phe	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Val	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Gln	Lys	Leu	Cys	Trp	Ser	Leu
	130					135					140				
Val	Ala	Gly	Ser	Tyr	Ser	Trp	Gly	Ile	Ile	Cys	Ser	Phe	Val	Phe	Ile
145					150					155					160
Arg	Phe	Met	Leu	Thr	Leu	Val	Phe	Cys	Gly	Thr	Lys	Phe	Ile	Asn	Asn
			165						170					175	
Phe	Val	Cys	Glu	His	Asp	Ala	Ile	Val	Ala	Val	Ser	Cys	Ser	Asp	Pro
		180					185					190			
Tyr	Ile	Ser	Gln	Lys	Val	Ile	Phe	Ile	Phe	Ala	Thr	Phe	Asn	Glu	Leu
	195					200					205				
Ser	Ser	Leu	Met	Ile	Ile	Leu	Thr	Ser	Tyr	Val	Phe	Ile	Val	Ile	Thr
	210					215					220				
Val	Met	Lys	Met	Pro	Thr	Thr	Gly	Gly	Arg	Tyr	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Thr	Thr	Ile	Thr	Ile	Phe	His	Ser	Ile	Ile	Ile
			245						250					255	
Cys	Leu	Tyr	Cys	Val	Pro	Thr	Thr	Lys	Ser	Ser	Trp	Leu	Leu	Val	Lys
		260						265				270			
Val	Ala	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Ala	Val	Lys	Lys	Leu
	290				295						300				
Met	Cys	Ser	Ser	Leu	Ser	Ser									
305					310										

<210> 2266  
 <211> 271  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (87)...(92)  
 <223> Any amino acid

Met	Glu	Cys	Gln	Arg	Asn	Ile	Ser	Glu	Phe	Leu	Leu	Met	Gly	Leu	Ser
1			5						10					15	
Ser	Lys	Gln	Asn	Thr	Glu	Val	Phe	Cys	Phe	Met	Phe	Phe	Leu	Phe	Cys
		20						25				30			
Tyr	Phe	Thr	Ile	Leu	Ser	Trp	Asn	Leu	Leu	Ile	Leu	Phe	Ser	Ile	Arg
	35						40					45			

Gly	Ser	Ser	Leu	Phe	Asn	Gln	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	His	Leu
50						55					60				
Ala	Ser	Met	Asp	Ile	Cys	Tyr	Thr	Ser	Cys	Val	Thr	Pro	Lys	Leu	Ile
65					70					75					80
Gly	Gly	Ser	Ala	Cys	Arg	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Leu	His	Tyr
				85					90					95	
Met	Val	Ile	Met	Ser	Arg	Asn	Arg	Cys	His	Val	Phe	Ile	Trp	Ala	Ser
			100					105					110		
Trp	Val	Gly	Gly	Val	Ala	His	Ser	Phe	Pro	Gln	Val	Met	Met	Leu	Val
		115					120					125			
Cys	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asp	His	Tyr	Phe	Cys	Asp
		130				135					140				
Val	Phe	Pro	Leu	Leu	Lys	Ile	Ala	Cys	Thr	Asp	Thr	Tyr	Ile	Ile	Gly
145					150					155					160
Val	Leu	Met	Val	Ala	Asn	Ser	Gly	Met	Val	Ala	Ser	Val	Ile	Phe	Val
				165					170					175	
Leu	Leu	Phe	Gly	Ser	Tyr	Val	Val	Ile	Leu	Phe	Thr	Leu	Arg	Asn	Tyr
			180					185					190		
Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Ile
		195				200						205			
Ser	Val	Val	Ile	Leu	Phe	Phe	Gly	Ser	Thr	Ile	Phe	Ala	Tyr	Leu	Arg
		210				215					220				
Pro	Pro	Thr	Thr	Phe	Pro	Glu	Asp	Lys	Ile	Phe	Ala	Leu	Phe	Tyr	Thr
225					230					235					240
Ile	Ile	Ala	Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys
				245					250					255	
Glu	Met	Lys	Thr	Ala	Ile	Lys	Lys	Val	Trp	Cys	Gln	Met	Ser	Phe	
			260					265					270		

<210> 2267  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (58)...(138)  
 <223> Any amino acid

<400> 2267

Met	Glu	Cys	Lys	Arg	Asn	Val	Ser	Glu	Phe	Leu	Leu	Met	Gly	Leu	Ser
1				5					10					15	
Ser	Lys	Gln	Asn	Thr	Glu	Val	Phe	Cys	Phe	Ile	Phe	Phe	Leu	Phe	Cys
			20					25					30		
Tyr	Phe	Thr	Ile	Leu	Ser	Trp	Asn	Leu	Leu	Ile	Leu	Phe	Ser	Ile	Arg
		35				40						45			
Cys	Ser	Ser	Leu	Phe	Asn	Gln	Pro	Met	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	50				55						60				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
65					70					75					80
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			85					90					95		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			100				105					110			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			115				120					125			

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Ile	Trp	Ala	Ser	Trp
130						135				140					
Val	Gly	Gly	Val	Ala	His	Ser	Phe	Pro	Gln	Val	Met	Met	Leu	Val	Cys
145					150					155					160
Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Ile	Asp	His	Tyr	Tyr	Cys	Asp	Val
			165						170					175	
Phe	Pro	Leu	Leu	Lys	Val	Ala	Cys	Thr	Asp	Thr	Tyr	Ile	Ile	Gly	Val
		180						185					190		
Leu	Met	Val	Ala	Asn	Ser	Gly	Met	Val	Ala	Phe	Val	Ile	Phe	Val	Leu
195							200					205			
Leu	Phe	Gly	Ser	Tyr	Val	Val	Ile	Leu	Phe	Thr	Leu	Arg	Asn	Tyr	Ser
210						215					220				
Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Ile	Ser
225					230					235					240
Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Ser	Ile	Phe	Val	Tyr	Leu	Arg	Pro
				245					250					255	
Pro	Thr	Thr	Phe	Pro	Glu	Asp	Lys	Ile	Phe	Ala	Leu	Phe	Tyr	Thr	Ile
			260					265					270		
Ile	Ala	Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Thr	Glu
		275					280					285			
Met	Lys	Ser	Ala	Ile	Lys	Lys	Val	Trp	Cys	Gln	Val	Thr	Phe	Leu	Gly
290						295					300				
Glu	Lys	His	Asn												
305															

<210> 2268  
 <211> 118  
 <212> PRT  
 <213> Mus musculus

<400> 2268

Gly	Ile	Val	Val	Thr	Ala	Asn	Ser	Gly	Thr	Ile	Ala	Leu	Gly	Ser	Phe
1				5				10					15		
Val	Ile	Leu	Leu	Ile	Ser	Tyr	Thr	Val	Ile	Leu	Met	Ser	Leu	Arg	Lys
		20					25					30			
Gln	Ser	Ser	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His
		35				40						45			
Ile	Ala	Val	Val	Ile	Ile	Phe	Phe	Gly	Pro	Cys	Thr	Phe	Met	Tyr	Met
50					55					60					
Arg	Pro	Asp	Thr	Thr	Phe	Ser	Glu	Asp	Lys	Met	Val	Ala	Ile	Phe	Tyr
65				70					75					80	
Thr	Ile	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn
			85					90					95		
Ala	Glu	Val	Lys	Asn	Ala	Met	Arg	Lys	Leu	Trp	Ala	Arg	Lys	Phe	Ser
		100						105					110		
Trp	Glu	Thr	Thr	Gly	Lys										
		115													

<210> 2269  
 <211> 122  
 <212> PRT  
 <213> Mus musculus

<400> 2269

Met	His	Asn	Asn	Ser	Met	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1		5		10		15									
Asp	Pro	Glu	Gln	Gln	Lys	Ala	Ile	Phe	Gly	Val	Phe	Leu	Ile	Leu	Tyr
		20						25				30			
Leu	Met	Thr	Leu	Ile	Gly	Asn	Phe	Leu	Ile	Met	Val	Thr	Ile	Lys	Met
		35				40						45			
Ser	Gln	Thr	Leu	Gly	Ser	Pro	Met	Tyr	Val	Phe	Leu	Phe	Tyr	Leu	Ser
	50				55					60					
Phe	Ala	Asp	Ala	Cys	Phe	Ser	Thr	Thr	Thr	Ala	Pro	Arg	Leu	Ile	Val
65					70					75					80
Asn	Ala	Leu	Ser	Gln	Lys	Lys	Ile	Ile	Ser	Tyr	Asn	Glu	Cys	Met	Thr
				85					90					95	
Gln	Val	Phe	Ala	Ala	His	Phe	Phe	Gly	Cys	Met	Glu	Ile	Phe	Val	Leu
			100					105					110		
Ile	Leu	Met	Ala	Ile	Asp	Arg	Tyr	Val	Ala						
		115					120								

<210> 2270  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2270

Met	Glu	Pro	Tyr	Asn	Leu	Thr	Gly	Thr	Leu	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10				15		
Leu	Ser	Glu	Asp	Pro	Glu	Leu	Gln	Leu	Ile	Leu	Phe	Ala	Leu	Phe	Met
		20						25				30			
Leu	Ile	Tyr	Leu	Leu	Thr	Val	Leu	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala
	35					40					45				
Ile	Ser	Cys	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Phe	Tyr
	50				55					60					
Asn	Leu	Ser	Leu	Ser	Asp	Met	Gly	Phe	Ser	Ser	Thr	Thr	Ile	Pro	Lys
65				70					75						80
Met	Leu	Ile	Asn	Leu	His	Val	His	Asn	Arg	Ser	Ile	Thr	Tyr	Ala	Glu
			85					90						95	
Cys	Leu	Thr	Arg	Val	Tyr	Phe	Phe	Phe	Leu	Phe	Gly	Gly	Met	Asp	Ser
		100						105				110			
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Trp	Val	Ala	Ile	Cys	Arg
	115					120					125				
Pro	Leu	His	Tyr	Gln	Val	Ile	Leu	Ser	Pro	Arg	Leu	Cys	Arg	Cys	Leu
	130				135					140					
Val	Ile	Val	Ser	Leu	Ser	Ile	Ser	Leu	Val	Ser	Ser	Gln	Val	His	Cys
145				150					155					160	
Leu	Leu	Val	Ser	Gln	Leu	Thr	Phe	Cys	Ile	Asn	Val	Glu	Ile	Pro	His
			165					170						175	
Phe	Phe	Cys	Asp	Val	Pro	Glu	Leu	Val	Lys	Leu	Ala	Cys	Ser	Asn	Thr
		180					185					190			
Thr	Ile	Asn	Asp	Ile	Val	Met	Phe	Leu	Leu	Ser	Ile	Ile	Val	Gly	Phe
	195					200					205				
Leu	Pro	Ala	Ser	Gly	Ile	Phe	Tyr	Ser	Tyr	Tyr	Lys	Ile	Thr	Ser	Ser
	210				215					220					
Ile	Phe	Arg	Val	Pro	Ser	Leu	Leu	Ala	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
225				230					235					240	
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Cys	Leu	Phe	Tyr	Gly	Thr	Gly	Ile
			245					250						255	
Gly	Val	Tyr	Leu	Ser	Ser	Thr	Val	Ser	Ser	Ser	Arg	Glu	Ser	Met	
		260					265					270			

Val	Ala	Ser	Val	Met	Tyr	Thr	Met	Val	Val	Pro	Met	Met	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Lys	Ser	Leu	Trp	Lys	Ile
	290					295					300				
Val	His	Gln	Ile	Thr											
305															

<210> 2271  
 <211> 515  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (197)...(204)  
 <223> Any amino acid

<400> 2271

Met	Asn	Asp	Thr	Phe	Ile	Val	Thr	Met	Phe	Ala	Tyr	Phe	Gln	Val	Lys
1				5					10					15	
Thr	Ala	Asn	Phe	Met	Glu	Gln	Glu	Asn	Ile	Thr	Ala	Thr	Ser	Ile	Phe
		20					25						30		
Ile	Leu	Leu	Gly	Leu	Ser	Lys	Glu	Thr	Asp	Ile	Gln	Pro	Leu	Val	Phe
	35						40				45				
Gly	Leu	Phe	Leu	Phe	Ile	Tyr	Leu	Val	Cys	Ile	Thr	Gly	Asn	Met	Leu
	50					55					60				
Ile	Ile	Leu	Ile	Ile	Thr	Ser	Asp	Ala	His	Leu	Gln	Thr	Pro	Met	Tyr
65					70				75						80
Phe	Phe	Leu	Ser	Asn	Leu	Ser	Phe	Thr	Asp	Ile	Cys	Phe	Ile	Ser	Thr
			85					90						95	
Thr	Val	Pro	Lys	Met	Leu	Val	Asn	Ile	Gln	Thr	Gln	Asn	Lys	Ser	Ile
			100				105						110		
Thr	Tyr	Glu	Gly	Cys	Leu	Ala	Gln	Met	Tyr	Phe	Phe	Met	Phe	Phe	Ser
	115						120					125			
Gly	Leu	Asp	Ser	Leu	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val
	130					135					140				
Ala	Ile	Cys	His	Pro	Leu	His	Tyr	Met	Ile	Val	Met	Ser	Pro	His	Leu
145					150					155					160
Cys	Val	Ser	Leu	Leu	Leu	Ser	Cys	Leu	Ile	Cys	Leu	Ala	Tyr	Ser	
			165				170						175		
Leu	Leu	Gln	Thr	Leu	Phe	Phe	Phe	Ser	Ile	Phe	Tyr	Val	Phe	Asn	Ser
		180					185						190		
Phe	Thr	Phe	Pro	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ala	Tyr	Lys	Val
		195					200					205			
Cys	Lys	Ser	Asn	Gly	Pro	Leu	Phe	Pro	Val	Met	Ala	Asp	Ala	Ile	Phe
	210					215					220				
Tyr	Ile	Cys	Ser	Ser	Gln	Glu	Leu	Arg	Gly	Thr	Gly	Leu	Ile	Met	Leu
225					230					235					240
Phe	His	Leu	Gly	Cys	Arg	Ser	Leu	Leu	Leu	Gly	Tyr	Phe	Leu	Leu	Leu
			245						250					255	
His	Trp	Glu	Pro	Tyr	Asp	Pro	Ser	Ile	Ser	Leu	Ala	Ser	Thr	Ser	Val
		260					265						270		
Phe	Ala	Gly	Pro	Arg	His	Ser	Leu	Thr	Arg	Asp	Ser	Tyr	Ile	Cys	Val
	275						280					285			
Leu	Ser	Ile	Lys	Ser	Cys	Cys	Met	Gln	Trp	Cys	Gln	Arg	Leu	Asp	Ala
	290					295					300				

Asp Tyr Gly Val Asp Pro Trp Leu Trp Gln Ser Leu His Gly Pro Ser  
 305 310 315 320  
 Phe His Leu Ser Ser Lys Leu Arg Leu Cys Asn Ser Phe His Gly Cys  
 325 330 335  
 Phe Val Pro Lys Ser Lys Glu Gly His Ser Val His Thr Ser Val Phe  
 340 345 350  
 Ile Leu Leu Glu Phe His Val Leu Gln Thr Leu Met Phe Leu Arg Val  
 355 360 365  
 Ser Phe Cys Lys Lys Thr Glu Ile Pro His Tyr Phe Cys Glu Leu Ala  
 370 375 380  
 Gln Ile Leu Lys Leu Ala Cys Ser Asp Thr Tyr Ala Asn Asp Ile Leu  
 385 390 395 400  
 Leu Tyr Cys Val Thr Gly Leu Leu Gly Ile Ile Pro Leu Ser Gly Ile  
 405 410 415  
 Leu Phe Ser Tyr Ser Lys Ile Ile Asn Ser Ile Val Gly Ile Ser Ser  
 420 425 430  
 Ala Arg Gly Lys Tyr Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ser  
 435 440 445  
 Val Val Ser Leu Phe Tyr Gly Thr Gly Leu Gly Val Tyr Leu Thr Ser  
 450 455 460  
 Gln Met Ser Tyr Lys Ser Arg Glu Gly Ser Ile Ala Ser Val Met Tyr  
 465 470 475 480  
 Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu Arg Asn  
 485 490 495  
 Lys Asp Leu Asn Gln Ala Leu Arg Arg Phe Phe His Ser Thr Gly Asp  
 500 505 510  
 Arg Phe Arg  
 515

<210> 2272  
 <211> 109  
 <212> PRT  
 <213> Mus musculus

<400> 2272  
 Met Glu Pro Tyr Asn Leu Thr Gly Thr Leu Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Ser Glu Asp Pro Glu Leu Gln Leu Ile Leu Phe Ala Leu Phe Leu  
 20 25 30  
 Leu Ile Tyr Leu Leu Thr Met Leu Gly Asn Val Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Ser Cys Asp Ser His Leu His Ser Pro Met Tyr Phe Phe Leu Tyr  
 50 55 60  
 Asn Leu Ser Leu Ser Asp Met Gly Phe Ser Ser Thr Thr Ile Pro Lys  
 65 70 75 80  
 Met Leu Ile Asn Leu His Ala His Lys Arg Ser Thr Thr Tyr Ala Glu  
 85 90 95  
 Cys Leu Thr Gln Val Ser Phe Phe Ile Leu Phe Gly Cys  
 100 105

<210> 2273  
 <211> 310  
 <212> PRT  
 <213> Mus musculus



<400> 2273

Val	Ser	Ser	Thr	Asn	Gln	Tyr	Ser	Val	Ser	Glu	Phe	Ile	Leu	Leu	Glu
1				5					10					15	
Leu	Ser	Arg	Gln	Pro	Gln	Gln	Gln	Gln	Leu	Leu	Phe	Leu	Phe	Phe	Leu
			20					25					30		
Ile	Met	Tyr	Leu	Ala	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Ile	Ser	Thr	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55				60					
Asn	Leu	Ser	Phe	Val	Asp	Val	Cys	Phe	Ser	Ser	Thr	Ile	Val	Pro	Lys
65					70				75						80
Val	Leu	Ala	Ile	His	Ile	Leu	Arg	Asn	Gln	Ala	Ile	Leu	Tyr	Ser	Gly
				85				90						95	
Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Leu	Cys	Val	Phe	Ala	Asp	Val	Asp	Asn
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
			115				120					125			
Pro	Leu	His	Tyr	Thr	Thr	Lys	Met	Thr	His	Gln	Leu	Cys	Ala	Leu	Leu
	130					135					140				
Val	Val	Gly	Ser	Gly	Val	Val	Ala	Asn	Leu	Asn	Cys	Leu	Leu	His	Thr
145					150					155					160
Leu	Leu	Met	Ala	Leu	Ser	Phe	Cys	Glu	Asn	Tyr	Ile	Ile	Pro	His	Phe
			165					170						175	
Phe	Cys	Asp	Ala	Thr	Pro	Leu	Leu	Lys	Ile	Phe	Cys	Ser	Asp	Pro	His
			180					185					190		
Leu	Asn	Asp	Leu	Met	Ile	His	Thr	Glu	Gly	Thr	Met	Ile	Ile	Val	Thr
	195						200					205			
Pro	Phe	Val	Cys	Ile	Leu	Ile	Ser	Tyr	Ile	His	Ile	Thr	Tyr	Ala	Ile
	210					215					220				
Leu	Arg	Val	Ser	Ser	His	Arg	Gly	Gly	Trp	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Ala	Val	Val	Cys	Phe	Phe	Tyr	Gly	Thr	Ile	Ile	Thr
			245					250					255		
Glu	Tyr	Phe	Asn	Pro	Ser	Ser	Ser	His	Ser	Ala	Arg	Arg	Asp	Met	Thr
			260					265					270		
Ala	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile
	275						280					285			
Tyr	Ser	Leu	Gly	Ser	Arg	Val	Met	Lys	Arg	Gly	Phe	Lys	Lys	Ser	Ala
	290					295					300				
Tyr	His	Glu	Ile	Tyr	Ile										
305					310										

<210> 2274

<211> 309

<212> PRT

<213> Mus musculus

<400> 2274

Met	Ala	Pro	Val	Asn	Gln	Ser	Val	Val	Thr	Met	Phe	Ile	Leu	Gln	Arg
1				5					10					15	
Phe	Val	Asp	Asp	Pro	Arg	Val	Gln	Asp	Val	Leu	Phe	Cys	Leu	Phe	Phe
			20					25					30		
Ala	Leu	Phe	Val	Ala	Ala	Ile	Ala	Gly	Asn	Gly	Leu	Ile	Ile	Ala	Thr
		35					40					45			
Ile	His	Ser	Ser	Pro	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Val
	50					55					60				

Asn	Leu	Ala	Leu	Met	Asp	Val	Ile	Cys	Thr	Val	Thr	Val	Leu	Pro	Lys
65					70					75					80
Val	Leu	Gln	Ser	Leu	Val	Ala	Glu	Asn	Ser	Ile	Ser	Tyr	Gly	Gly	Cys
				85					90					95	
Leu	Thr	Gln	Met	Phe	Val	Phe	Ser	Trp	Val	Leu	Gly	Ser	Glu	Leu	Leu
			100					105					110		
Leu	Phe	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Arg	Pro
		115					120					125			
Leu	His	Tyr	Gly	Thr	Leu	Met	Ser	Gly	Arg	Val	Cys	Val	Ala	Leu	Ala
	130					135					140				
Thr	Phe	Val	Trp	Phe	Thr	Gly	Ala	Phe	Asn	Ser	Leu	Val	Leu	Thr	Cys
145					150					155					160
Leu	Met	Leu	Pro	Leu	Ser	Phe	Cys	Gly	Pro	Asn	Leu	Ile	Thr	His	Phe
				165					170					175	
Phe	Cys	Glu	Ile	Pro	Ser	Val	Leu	Ile	Leu	Ser	Cys	Ser	Pro	Thr	Phe
			180					185					190		
Ile	Asn	Asp	Ile	Met	Thr	Val	Ile	Ala	Asp	Met	Phe	Leu	Thr	Gly	Leu
		195					200					205			
Asn	Phe	Leu	Leu	Thr	Met	Thr	Ser	Tyr	Gly	Phe	Ile	Ile	Ser	Ser	Ile
	210					215					220				
Leu	Arg	Ile	Arg	Ser	Ala	Glu	Gly	Lys	Lys	Arg	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ala	His	Leu	Val	Val	Val	Thr	Leu	Tyr	Tyr	Ser	Thr	Val	Leu	Tyr
				245					250					255	
Thr	Tyr	Val	Arg	Pro	Ala	Leu	Gly	Thr	Ala	Gly	Phe	Leu	Asp	Lys	Leu
			260					265					270		
Ile	Ala	Val	Leu	Tyr	Thr	Thr	Val	Thr	Pro	Ser	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Phe	Lys	Thr	Ser	Phe	Lys	Lys	Leu	Ile
	290					295					300				
Ser	Leu	Leu	Arg	Thr											
305															

<210> 2275  
 <211> 188  
 <212> PRT  
 <213> Mus musculus

<400> 2275															
Pro	Phe	Arg	Tyr	Pro	Val	Ile	Met	Ser	Pro	Gly	Leu	Ala	Ala	Phe	Leu
1				5					10					15	
Ala	Gly	Gly	Ser	Trp	Leu	Ser	Gly	Phe	Thr	Ile	Ser	Leu	Gly	Lys	Val
			20					25					30		
Phe	Phe	Ile	Ser	Arg	Leu	Gly	Tyr	Cys	Gly	Pro	Asn	Val	Met	Asn	His
		35					40					45			
Phe	Phe	Cys	Asp	Val	Ser	Pro	Leu	Leu	Asn	Leu	Ala	Cys	Ser	Asp	Met
		50				55					60				
Ser	Val	Ala	Glu	Leu	Val	Asp	Phe	Leu	Leu	Ala	Leu	Leu	Ile	Leu	Leu
65					70					75					80
Gly	Pro	Leu	Leu	Leu	Thr	Val	Phe	Ser	Tyr	Thr	Ala	Ile	Leu	Ser	Thr
				85					90					95	
Val	Leu	Arg	Met	Pro	Ser	Ala	Gly	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr
			100					105					110		
Cys	Ala	Ser	His	Leu	Ala	Val	Val	Val	Ile	Phe	Tyr	Ser	Ala	Ser	Leu
		115					120					125			
Phe	Ile	Tyr	Ala	Arg	Pro	Arg	Ala	Leu	Tyr	Ser	Phe	Asp	Tyr	Asn	Lys

130		135		140
Leu Val Ser Val Val Tyr Thr Val Leu Thr Pro Leu Ile Asn Pro Ile				
145		150		155
Ile Tyr Cys Leu Arg Asn Gln Glu Val Lys Gln Ala Leu His Lys Val				
	165		170	175
Gln Gln Arg Ala Ala Gln Val Leu Gly Ala Ser Ser				
180		185		

<210> 2276  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2276

Met Ala Phe Gln Ala Asp Gly Asn His Thr Thr Val Thr Glu Phe Leu				
1	5	10	15	
Leu Leu Gly Leu Thr Asp Asp Pro Val Leu Arg Val Ile Leu Phe Thr				
	20	25	30	
Ile Ile Leu Cys Ile Tyr Leu Val Thr Val Ser Gly Asn Leu Ser Thr				
	35	40	45	
Ile Leu Leu Ile Arg Val Ser Ser Gln Leu His His Pro Met Tyr Phe				
	50	55	60	
Phe Leu Ser His Leu Ala Ser Val Asp Ile Gly Ile Ser Ser Ser Val				
65	70	75	80	
Thr Pro Asn Met Leu Val Asn Phe Leu Val Glu Arg Asn Thr Ile Ser				
	85	90	95	
Tyr Leu Gly Trp Gly Ile Gln Leu Ser Phe Gly Asp Ile Phe Gly Ser				
	100	105	110	
Val Glu Cys Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Phe Met Ala				
	115	120	125	
Ile Cys Asn Pro Leu Leu Tyr Ser Thr Lys Met Ser Thr Gln Val Cys				
	130	135	140	
Val Gln Leu Val Val Gly Ser Tyr Ile Gly Gly Leu Leu Asn Ala Ser				
145	150	155	160	
Phe Ala Met Val Ser Phe Phe Ser Phe Leu Phe Cys Gly Ser Asn Arg				
	165	170	175	
Val Glu His Phe Phe Cys Asp Phe Val Pro Leu Ala Glu Leu Ser Cys				
	180	185	190	
Ser Asp Ile Ser Ile Ser Val Val Leu Val Ser Phe Ser Ala Gly Ser				
	195	200	205	
Val Thr Met Leu Thr Val Phe Ile Ile Val Ile Ser Tyr Ser Tyr Ile				
	210	215	220	
Leu Ile Thr Ile Leu Lys Met Arg Ser Thr Glu Gly Arg Gln Lys Ala				
225	230	235	240	
Phe Ser Thr Thr Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Thr				
	245	250	255	
Ile Thr Phe Ile Tyr Val Met Pro Lys Ser Ser Phe Ser Thr Asn Gln				
	260	265	270	
Asn Lys Val Val Ser Val Phe Tyr Met Val Val Ile Pro Met Leu Asn				
	275	280	285	
Pro Leu Ile Tyr Ser Leu Arg Asn Asn Glu Ile Lys Asp Ala Leu Arg				
	290	295	300	
Arg His Leu Gly Lys Lys Thr Leu Ser				
305	310			

<210> 2277  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 2277

```

Leu Ala Phe Leu Glu Asp Gly Asn His Thr Ile Val Thr Glu Phe Thr
 1          5          10          15
Leu Leu Asp Leu Thr Glu Asp Leu Val Leu Arg Val Ile Leu Phe Ser
 20          25          30
Ile Ile Leu Cys Ile Tyr Leu Val Ser Val Ser Gly Asn Leu Ser Thr
 35          40          45
Ile Leu Leu Ile Thr Arg Leu Tyr His Thr Met Tyr Phe Phe Leu Ser
 50          55          60
His Leu Ala Ser Val Asp Met Gly Leu Ser Ser Ser Val Thr Pro Asn
 65          70          75          80
Met Phe Val Asn Phe Leu Thr Glu Arg His Thr Ile Ser Tyr Phe Gly
 85          90          95
Cys Gly Ile Gln Leu Ser Ser Ala Ala Phe Phe Gly Ala Val Glu Phe
 100         105         110
Phe Leu Leu Ala Val Met Thr Tyr Asp Cys Leu Ile Ala Ile Asn Pro
 115         120         125
Leu Leu Tyr Ser Thr Lys Leu Ser Thr Gln Val Cys Ile Leu Val Val
 130         135         140
Gly Ser Tyr Val Gly Gly Phe Leu Asn Ala Ser Phe Val Thr His Phe
 145         150         155         160
Phe Leu Ser Phe Leu Phe Tyr Gly Pro Asn Arg Val Asn His Phe Phe
 165         170         175
Cys Asp Phe His Pro Met Met Glu Leu Ser Cys Ser Asp Val Ser Val
 180         185         190
Ser Gly Ile Val Ile Ser Phe Thr Ala Gly Leu Ile Ser Met Thr Thr
 195         200         205
Leu Ile Val Ile Val Ile Ser Tyr Phe Tyr Ser Leu Ile Thr Ile Leu
 210         215         220
Lys Met Gln Ser Thr Glu Gly His Gln Lys Thr Phe Ser Thr Cys Ala
 225         230         235         240
Ala His Leu Thr Ala Val Ile Leu Ser Tyr Gly Thr Ala Thr Phe Phe
 245         250         255
Tyr Val Met Pro Lys Ser Thr Tyr Ser Glu Asp Gln Asn Lys Val Val
 260         265         270
Ser Phe Tyr Thr Val Ala Ile Pro Val Trp Asn Pro Leu Ile Tyr Ser
 275         280         285
Pro Trp Asn Thr Glu Thr Lys Asn Ala Leu Lys Gln Phe Tyr Arg Lys
 290         295         300
Thr Leu Leu
305

```

<210> 2278  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2278

```

Met Val Asn Gln Ser Ser Pro Val Val Phe Phe Leu Leu Gly Phe Phe
 1          5          10          15
Glu His Pro Gln Leu Glu Lys Val Leu Phe Val Val Val Leu Cys Ser

```



His	Pro	Arg	Leu	Cys	Arg	Gln	Leu	Ala	Gly	Val	Ala	Trp	Ala	Ile	Gly
			100					105					110		
Leu	Ile	Gln	Ser	Ile	Val	Gln	Ile	Pro	Pro	Thr	Leu	Thr	Leu	Pro	Phe
		115					120					125			
Cys	Ser	His	Arg	Gln	Ile	Asp	Asp	Phe	Leu	Cys	Glu	Val	Pro	Ser	Leu
	130					135					140				
Ile	Arg	Leu	Ser	Cys	Gly	Asp	Thr	Thr	Phe	Asn	Glu	Ile	Gln	Leu	Ser
145					150					155					160
Val	Ala	Gly	Val	Ile	Phe	Leu	Leu	Val	Pro	Leu	Ser	Leu	Ile	Ile	Val
				165					170					175	
Ser	Tyr	Gly	Val	Ile	Ala	Arg	Ala	Val	Leu	Lys	Thr	Asn	Ser	Ser	Lys
			180					185					190		
Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val
	195						200					205			
Thr	Leu	Phe	Tyr	Ser	Ser	Val	Ile	Ala	Val	Tyr	Leu	Gln	Pro	Lys	Asn
	210					215					220				
Pro	Tyr	Ala	Gln	Glu	Arg	Ser	Lys	Phe	Phe	Gly	Leu	Phe	Tyr	Ala	Val
225					230					235					240
Gly	Thr	Pro	Thr	Leu	Asn	Pro	Leu	Val	Tyr	Thr	Leu	Arg	Asn	Lys	Glu
				245					250					255	
Val	Lys	Arg	Ala	Phe	Trp	Arg	Leu	Leu	Gly	Lys	Asp	Ala	Ala	Ser	Gly
			260					265					270		

Gly Asn

<210> 2280  
 <211> 260  
 <212> PRT  
 <213> Mus musculus

<400> 2280

Thr	Ile	Trp	Ile	Leu	Pro	Phe	Arg	Pro	Leu	Ser	Phe	Phe	Leu	Phe	Tyr
1				5					10					15	
Leu	Val	Phe	Gln	Asp	Lys	Ser	Gly	Cys	Arg	Lys	Ala	Val	Glu	Lys	Glu
			20					25					30		
Thr	His	Lys	Val	Ala	Lys	Ser	Leu	Ala	Thr	Leu	Ala	Gly	Cys	Leu	Leu
		35					40					45			
Gln	Phe	Leu	Thr	Phe	Thr	Ser	Leu	Asp	Ala	Asp	Glu	Tyr	Phe	Leu	Leu
	50					55					60				
Thr	Leu	Met	Ala	His	Asp	His	Cys	Leu	Ala	Ile	Phe	Tyr	Ser	Leu	Tyr
65					70					75					80
Pro	Arg	Leu	Met	Arg	Pro	Gln	Trp	Cys	Leu	Gly	Leu	Val	Ile	Ile	Val
				85					90					95	
Trp	Leu	Ser	Gly	Phe	Met	Glu	Ala	Gly	Leu	Val	Val	Ala	Leu	Thr	Ala
			100					105					110		
Gln	Leu	Arg	Phe	Cys	Gly	Pro	Asn	Leu	Ile	Asp	His	Phe	Tyr	Cys	Asp
		115					120					125			
Phe	Ser	Pro	Leu	Met	Ile	Leu	Ala	Cys	Ser	Asp	Thr	Val	Ala	Gln	Met
	130					135					140				
Thr	Thr	Phe	Val	Leu	Phe	Val	Val	Phe	Leu	Pro	Val	Leu	Ser	Gly	Leu
145					150					155					160
Ile	Leu	Met	Ser	Tyr	Ala	Gln	Phe	Val	Val	Ile	Val	Leu	Arg	Ile	Pro
				165					170					175	
Ser	Gly	Ala	Arg	Arg	Thr	Lys	Ala	Phe	Phe	Thr	Cys	Ser	Ser	His	Leu
			180					185					190		
Ala	Met	Met	Phe	Thr	Phe	Tyr	Gly	Ser	Leu	Met	Val	Trp	Tyr	Thr	Ala

		195					200				205				
Pro	Ser	Ala	Val	Leu	Ser	Leu	Gln	Leu	Leu	Ser	Lys	Val	Ile	Ala	Leu
	210					215					220				
Leu	Tyr	Thr	Val	Phe	Ala	Pro	Ile	Phe	Asn	Ser	Val	Ile	Tyr	Thr	Leu
225					230					235					240
Arg	Asn	Leu	Asp	Met	Gln	Lys	Ala	Leu	Arg	Arg	Leu	Leu	Tyr	Cys	Lys
			245						250					255	
Ser	Thr	Glu	Met												
			260												

<210> 2281  
 <211> 251  
 <212> PRT  
 <213> Mus musculus

<400> 2281

Asp	Thr	Pro	Leu	His	Pro	Pro	Pro	Ser	Phe	Phe	Leu	Ser	Tyr	Leu	Val
1				5					10					15	
Leu	Gln	Gly	Trp	Lys	Ala	Glu	Tyr	Arg	Lys	Ala	Val	Glu	Lys	Gly	Thr
		20						25					30		
His	Lys	Val	Ala	Lys	Ser	Leu	Val	Thr	Leu	Pro	Gly	Cys	Leu	Leu	Gln
	35					40						45			
Phe	Phe	Thr	Phe	Ser	Ser	Leu	Tyr	Ile	Asp	Glu	Tyr	Phe	Leu	Leu	Ala
	50					55					60				
Leu	Met	Ala	Tyr	Asp	His	Cys	Leu	Ala	Ile	Cys	Tyr	Ser	Leu	Tyr	Pro
65					70					75					80
Arg	Leu	Met	Arg	Pro	Gln	Trp	Cys	Leu	Gly	Leu	Val	Leu	Thr	Val	Trp
			85						90					95	
Val	Ser	Gly	Phe	Met	Glu	Asp	Gly	Leu	Val	Val	Ala	Leu	Thr	Ala	Gln
		100					105						110		
Leu	Arg	Phe	Cys	Gly	Pro	Asn	Leu	Ile	Asp	His	Phe	Tyr	Cys	Asp	Phe
	115					120						125			
Ser	Pro	Leu	Met	Ala	Cys	Phe	Asp	Thr	Val	Ala	Gln	Met	Thr	Thr	Phe
	130					135					140				
Val	Leu	Ser	Val	Ile	Phe	Leu	Thr	Val	Pro	Phe	Gly	Leu	Val	Leu	Ile
145				150						155					160
Ser	Tyr	Ala	Gln	Ile	Val	Val	Thr	Val	Leu	Arg	Ile	Leu	Ser	Gly	Ala
			165						170					175	
Arg	Arg	Thr	Lys	Ala	Phe	Phe	Ile	Cys	Pro	Ser	His	Leu	Ala	Val	Val
		180					185						190		
Ser	Thr	Leu	Tyr	Gly	Thr	Leu	Met	Gly	Leu	Tyr	Thr	Val	Pro	Phe	Val
	195					200						205			
Val	His	Ser	Gln	Leu	Leu	Thr	Lys	Val	Ile	Ala	Leu	Leu	Tyr	Thr	Val
	210					215					220				
Phe	Thr	Pro	Val	Phe	Asn	Pro	Val	Ile	Tyr	Thr	Leu	Lys	Asn	Gln	Glu
225					230					235					240
Val	Gln	Gln	Ala	Leu	Arg	Arg	Leu	Leu	Tyr	Cys					
			245						250						

<210> 2282  
 <211> 301  
 <212> PRT  
 <213> Mus musculus

<400> 2282

Ile	Ile	Gly	Phe	Pro	Met	Gln	Gly	Gly	Gln	Pro	Asn	Tyr	Ile	Tyr	Ile
1				5					10					15	
His	Lys	Gln	Gln	Lys	Trp	Thr	Gln	Gln	Ile	Val	Tyr	Ile	Tyr	Val	Cys
		20						25					30		
Val	Cys	Val	Cys	Val	Cys	Val	Cys	Val	Cys	Val	Ala	Tyr	Val	His	Thr
		35					40					45			
Tyr	Thr	Tyr	Lys	Tyr	Ile	Cys	Val	Tyr	Lys	Trp	Leu	Ser	Ser	Lys	Ser
	50					55					60				
Ser	Arg	Asp	Leu	Glu	Gly	Gly	Trp	Lys	Met	Ser	Val	Glu	Lys	Arg	Thr
65					70					75					80
Gln	Ser	Arg	Gln	Lys	Ser	Gly	Tyr	Thr	Gly	Gln	Leu	Leu	Pro	Pro	Val
				85					90					95	
Leu	His	Pro	Trp	Leu	Cys	Arg	Lys	Tyr	Phe	Leu	Leu	Ile	Val	Met	Val
			100					105					110		
Tyr	Asp	His	Tyr	Leu	Thr	Ile	Cys	His	His	Leu	Tyr	Pro	Phe	Leu	Met
	115						120					125			
Gly	Pro	Leu	Trp	Gly	Leu	Gly	Phe	Gly	Leu	Thr	Thr	Ser	Phe	Val	Val
	130					135					140				
Asp	Glu	Leu	Ile	Val	Ala	Leu	Met	Ala	Gln	Leu	Arg	Phe	Cys	Val	Pro
145					150					155					160
Lys	Gln	Ile	Asp	His	Phe	Tyr	Tyr	Asp	Phe	Ser	Pro	Leu	Val	Val	Leu
			165					170						175	
Ala	Tyr	Thr	Asp	Thr	Gly	Leu	Val	Gln	Val	Thr	Thr	Phe	Val	Leu	Phe
			180					185					190		
Val	Val	Phe	Leu	Thr	Val	Pro	Phe	Gly	Leu	Val	Leu	Ile	Ser	Cys	Ala
		195					200					205			
Gln	Ile	Ala	Val	Thr	Val	Leu	Arg	Val	Pro	Ser	Arg	Thr	Arg	Arg	Asn
	210					215					220				
Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Asp	Glu	Val	Ser	Thr	Phe
225					230					235					240
Tyr	Gly	Ser	Leu	Met	Val	Trp	Tyr	Thr	Glu	Pro	Ser	Ala	Val	His	Ser
				245					250					255	
Gln	Ile	Leu	Ser	Lys	Val	Ile	Ala	Leu	Leu	Tyr	Thr	Val	Val	Thr	Thr
			260					265					270		
Ile	Phe	Asp	Pro	Gly	Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Val	Gln	Gln
		275					280					285			
Ser	Leu	Arg	Arg	His	Leu	Tyr	Cys	Lys	Pro	Thr	Glu	Met			
	290					295					300				

<210> 2283

<211> 293

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (68)...(111)

<223> Any amino acid

<400> 2283

Met	Glu	Asp	Met	Ala	Ala	Gly	Asn	His	Cys	Thr	Val	Thr	Glu	Phe	Phe
1				5					10					15	
Leu	Ala	Gly	Leu	Ser	Glu	Lys	Ser	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu
		20						25					30		
Leu	Phe	Thr	Gly	Ile	Tyr	Leu	Ile	Thr	Met	Ala	Gly	Asn	Leu	Gly	Met
		35					40					45			



Ile	Thr	Leu	Ile	Gly	Leu	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr
50					55					60					
Phe	Leu	Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe
65				70					75						80
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			85					90						95	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu
			100					105					110		
Leu	Tyr	Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile	Tyr	Ser	Ser	Leu	Ile	Ser
	115						120					125			
Gly	Val	Tyr	Ile	Phe	Ala	Val	Ile	Cys	Ser	Ser	Phe	Asn	Thr	Gly	Phe
	130					135					140				
Met	Leu	Arg	Thr	Gln	Phe	Cys	Asn	Leu	Asp	Val	Ile	Asn	His	Tyr	Phe
145					150					155					160
Cys	Asp	Leu	Leu	Pro	Leu	Leu	Asn	Leu	Ala	Ser	Ser	Asn	Thr	Tyr	Ile
				165					170					175	
Asn	Glu	Ile	Leu	Ile	Leu	Phe	Phe	Ala	Thr	Leu	Asn	Ser	Phe	Val	Pro
			180					185					190		
Val	Leu	Thr	Ile	Ile	Thr	Ser	Tyr	Ile	Phe	Ile	Ile	Val	Thr	Ile	Leu
	195						200					205			
Ser	Ile	His	Ser	Arg	Glu	Gly	Lys	Phe	Lys	Ala	Phe	Ser	Thr	Cys	Ser
	210					215					220				
Thr	His	Ile	Ser	Ala	Val	Ala	Ile	Phe	Tyr	Gly	Ser	Gly	Ala	Phe	Thr
225					230					235					240
Tyr	Leu	Gln	Pro	Ser	Ser	Leu	Asn	Ser	Met	Gly	Gln	Ala	Lys	Val	Ser
				245					250					255	
Ser	Val	Phe	Tyr	Thr	Thr	Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr
			260					265					270		
Ser	Leu	Arg	Asn	Lys	Asp	Val	Ser	Ile	Ala	Leu	Lys	Lys	Ile	Leu	Glu
	275						280					285			
Arg	Lys	Lys	Phe	Met											
	290														

<210> 2284  
 <211> 178  
 <212> PRT  
 <213> Mus musculus

<400> 2284

Met	Glu	Asp	Met	Thr	Ala	Gly	Asn	His	Cys	Thr	Val	Thr	Val	Phe	Phe
1				5					10					15	
Leu	Ala	Gly	Leu	Ser	Glu	Gln	Ser	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu
			20					25					30		
Phe	Phe	Thr	Gly	Ile	Tyr	Leu	Ile	Thr	Val	Ser	Gly	Asn	Leu	Gly	Met
	35						40					45			
Ile	Ile	Leu	Ile	Gly	Leu	Ser	Ser	Asn	Leu	His	Thr	Pro	Met	Tyr	Tyr
	50					55					60				
Phe	Leu	Ser	Ser	Leu	Ser	Phe	Ile	Asp	Phe	Gly	Gln	Ser	Thr	Val	Val
65					70					75					80
Thr	Pro	Lys	Met	Leu	Val	Ser	Phe	Leu	Thr	Glu	Lys	Asn	Phe	Ile	Thr
			85						90					95	
Tyr	Pro	Gly	Cys	Met	Thr	Gln	Leu	Tyr	Phe	Val	Ile	Ile	Phe	Gly	Thr
			100					105					110		
Ala	Glu	Ser	Tyr	Thr	Leu	Ala	Ala	Met	Ala	Tyr	Asp	His	Tyr	Val	Ala
	115						120					125			
Ile	Cys	Asn	Thr	Leu	Val	Tyr	Asn	Ile	Ala	Met	Ser	Ser	Gln	Ile	Tyr

130		135		140
Cys Ser Leu Ile Ser Gly Val Tyr Ile Phe Ala Val Phe Cys Ala Ser				
145		150		155
Val Asn Met Gly Phe Met Phe Arg Ile Gln Phe Cys Lys Ser Asp Val				
	165		170	175
Ile Asn				

<210> 2285  
 <211> 178  
 <212> PRT  
 <213> Mus musculus

<400> 2285
Ser Tyr Gln Val Cys Leu Leu Met Val Ala Val Val Tyr Gly Ile Gly
1 5 10 15
Leu Ile Ser Ala Thr Ala His Thr Val Phe Leu Leu Arg Leu Phe Phe
20 25 30
Cys Lys Ala Asp Lys Ile Asn His Tyr Phe Cys Asp Leu Phe Pro Leu
35 40 45
Leu Glu Leu Ser Cys Ser Ser Thr Phe Ile Asn Glu Ile Leu Ala Leu
50 55 60
Ser Phe Ser Ala Phe Asn Ile Ile Val Pro Ala Met Thr Ile Ile Gly
65 70 75 80
Ser Tyr Ile Phe Ile Ile Ile Ser Ile Leu His Ile Lys Ser Ser Gly
85 90 95
Gly Arg Val Lys Ala Phe Arg Thr Cys Ser Ser His Ile Leu Ala Val
100 105 110
Ala Ile Phe Phe Gly Ser Thr Thr Phe Met Tyr Leu Gln Pro Ser Ser
115 120 125
Val Ser Ser Met Asp Gln Gly Lys Val Ser Ser Val Phe Tyr Thr Ile
130 135 140
Val Val Pro Met Leu Asn Pro Met Ile Tyr Ser Leu Arg Asn Lys Asp
145 150 155 160
Val-Lys Val Ala Leu Lys Lys Leu Leu Gln Lys Met Phe Pro Gln Asn
165 170 175
Lys Glu

<210> 2286  
 <211> 183  
 <212> PRT  
 <213> Mus musculus

<400> 2286
Val Cys Leu Leu Leu Met Ser Val Cys Trp Ile Leu Gly Ser Leu Asp
1 5 10 15
Gly Phe Met Leu Thr Pro Ile Thr Met Thr Phe Pro Phe Cys Gly Ser
20 25 30
Arg Glu Ile His His Phe Phe Cys Glu Val Pro Ala Val Thr Lys Leu
35 40 45
Ser Cys Ser Asp Thr Trp Leu Tyr Glu Thr Leu Met Tyr Val Cys Cys
50 55 60
Val Leu Met Leu Leu Ile Pro Val Thr Val Ile Ser Gly Ser Tyr Thr
65 70 75 80

Ser	Ile	Leu	Leu	Thr	Val	Leu	Arg	Met	Asn	Ser	Ala	Glu	Gly	Arg	Lys
				85					90					95	
Lys	Ala	Leu	Ala	Thr	Cys	Ser	Ser	His	Met	Thr	Val	Val	Thr	Leu	Phe
			100					105					110		
Tyr	Gly	Ala	Ala	Val	Tyr	Thr	Tyr	Ile	Phe	Pro	Ala	Ser	Leu	His	Thr
		115					120					125			
Pro	Glu	Lys	Asp	Met	Val	Val	Ser	Val	Phe	Tyr	Thr	Ile	Leu	Thr	Pro
	130					135					140				
Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Phe	Arg	Asn	Lys	Asn	Val	Thr	Glu
145					150					155					160
Ala	Met	Lys	Lys	Leu	Leu	Gly	Val	Lys	Pro	Phe	Phe	Gln	Glu	Ser	Leu
				165					170					175	
Lys	Glu	Val	Ile	Tyr	Lys	Glu									
			180												

<210> 2287  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 2287

Met	Glu	Thr	Gly	Asn	Arg	Ser	Cys	Gly	Thr	Asp	Phe	Ser	Leu	Val	Gly
1				5					10					15	
Leu	Phe	Gln	Tyr	Gly	His	Met	Asp	Thr	Phe	Leu	Phe	Thr	Val	Ile	Ser
			20					25					30		
Ile	Leu	Phe	Ala	Val	Ala	Leu	Ile	Gly	Asn	Ile	Thr	Leu	Val	Leu	Leu
		35					40					45			
Ile	Arg	Leu	Asp	Gln	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser
	50					55					60				
Gln	Leu	Ser	Ile	Ile	Asp	Met	Met	Tyr	Ile	Ser	Thr	Thr	Val	Pro	Lys
65					70					75					80
Met	Ala	Ala	Asn	Phe	Leu	Ser	Asp	Thr	Lys	Ala	Ile	Ser	Phe	Leu	Gly
				85					90					95	
Cys	Ala	Val	Gln	Ala	Phe	Val	Phe	Leu	Thr	Leu	Gly	Gly	Ser	Glu	Ala
			100					105					110		
Leu	Leu	Leu	Gly	Phe	Met	Ser	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Gln
		115					120					125			
Pro	Leu	His	Tyr	Pro	Val	Leu	Met	Ser	Arg	Lys	Ile	Cys	Cys	Ser	Met
	130					135					140				
Val	Ala	Gly	Ala	Trp	Ser	Ser	Ser	Ser	Ile	Asn	Ala	Phe	Ile	His	Thr
145					150					155					160
Val	Tyr	Val	Phe	Gln	Leu	Pro	Phe	Cys	Gly	Ser	Arg	Met	Val	Asn	His
				165					170					175	
Phe	Phe	Cys	Glu	Val	Pro	Ser	Leu	Leu	Pro	Leu	Val	Cys	Glu	Asp	Thr
			180					185					190		
Ser	Gln	Tyr	Glu	Tyr	Thr	Val	Leu	Val	Ser	Gly	Leu	Val	Ile	Leu	Leu
		195					200					205			
Leu	Pro	Phe	Leu	Ala	Ile	Leu	Ala	Ser	Tyr	Ala	Arg	Val	Leu	Val	Val
	210					215					220				
Val	Leu	Gln	Met	Gly	Ser	Gly	Lys	Gly	Gln	Ser	Arg	Ala	Val	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Thr	Val	Ala	Ser	Leu	Phe	Tyr	Val	Thr	Gly	Leu
				245					250					255	
Ser	Thr	Tyr	Thr	Gln	Pro	His	Ser	Leu	His	Ser	Pro	Gly	Arg	Asp	Lys
			260					265					270		
Val	Val	Ala	Val	Leu	Tyr	Ser	Ile	Val	Thr	Pro	Val	Leu	Asn	Pro	Phe

	275		280		285
Ile Tyr Ser Leu Arg Asn Lys Glu Val Met Gly Ala Leu Arg Arg Gln					
290		295		300	
Met Gly					
305					

<210> 2288  
 <211> 259  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (71)...(83)  
 <223> Any amino acid

<400> 2288

Met Asp Leu Thr Thr Trp Met Asn Asn Tyr Thr Gly Gln Ser Asp Phe															
1		5		10		15									
Thr Leu Val Gly Leu Phe Ser Gln Ser Lys His Pro Ala Leu Leu Ala															
20			25		30										
Val Val Ile Phe Val Val Phe Leu Met Ala Leu Ser Gly Asn Ala Leu															
35		40		45											
Leu Ile Leu Leu Ile Leu Ser Asp Thr His Leu His Thr Pro Met Tyr															
50		55		60											
Phe Leu Ser Ala Ser Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa															
65		70		75		80									
Xaa Xaa Xaa Val Cys Leu Leu Leu Met Ser Val Cys Trp Val Leu Gly															
85		90		95											
Ser Leu Trp Asp Gly Phe Met Leu Thr Pro Val Thr Met Thr Phe Pro															
100		105		110											
Ile Cys Gly Ser Arg Glu Ile His His Phe Phe Cys Glu Val Pro Ala															
115		120		125											
Val Thr Lys Leu Ser Cys Ser Asp Thr Trp Leu Tyr Glu Thr Leu Met															
130		135		140											
Tyr Val Cys Cys Val Leu Met Leu Leu Ile Pro Val Thr Val Ile Ser															
145		150		155		160									
Gly Ser Tyr Thr Ser Ile Leu Leu Thr Val Leu Arg Met Asn Ser Ala															
165		170		175											
Glu Gly Arg Lys Lys Ala Leu Ala Thr Cys Ser Ser His Met Thr Val															
180		185		190											
Val Thr Leu Phe Tyr Gly Ala Ala Val Tyr Thr Tyr Met Leu Pro Ala															
195		200		205											
Ser Leu His Thr Pro Glu Lys Asp Met Val Val Ser Val Phe Tyr Thr															
210		215		220											
Ile Leu Thr Pro Leu Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys															
225		230		235		240									
Asn Val Thr Glu Ala Met Lys Lys Leu Leu Gly Glu Asn Pro Ser Phe															
245		250		255											
Gln Lys Gln															

<210> 2289  
 <211> 307  
 <212> PRT

<213> Mus musculus

<400> 2289

```
Trp Asp Leu Ser Ser Pro Ile Leu Leu Gly Leu Phe Pro Glu Leu Cys
 1          5          10          15
His Leu Gly Ile Leu Val Ile Ser Ile Leu Leu Ile Tyr Leu Ile Ala
 20          25          30
Phe Thr Gly Asn Ala Ile Leu Val Leu Leu Ile Trp Ala Asp Ser His
 35          40          45
Leu Arg Thr Pro Met Tyr Ile Leu Leu Ser Gln Leu Ser Ser Leu Leu
 50          55          60
Leu Asp Leu Ala Leu Ile Ser Ala Thr Ala Pro Lys Met Val Ile Asn
 65          70          75          80
Phe Phe Ser Arg Lys Lys Ser Ile Ser Lys Val Ala Cys Gly Thr Gln
 85          90          95
Ile Phe Cys Phe Phe Ala Leu Gly Gly Arg Glu Cys Leu Leu Leu Thr
100          105          110
Leu Met Ala Tyr Asn His Tyr Val Ala Val Cys His Pro Leu Arg Tyr
115          120          125
Ser Ile Ile Met Asn Asn Arg Val Cys Leu Trp Met Ala Leu Met Ser
130          135          140
Trp Gly Gly Gly Ala Leu Asn Ser Leu Ile Asn Thr Phe Tyr Ile Met
145          150          155          160
His Phe Pro Phe Cys Gly Ser Arg Glu Ile His His Phe Phe Cys Glu
165          170          175
Leu Ser Thr Val Leu Arg Leu Ser Cys Glu Glu Thr Ser Leu Tyr Glu
180          185          190
Met Val Val Ser Val Asn Cys Ile Val Phe Val Leu Leu Leu Leu Gly
195          200          205
Leu Ile Thr Ser Ser Tyr Leu Leu Ile Phe Leu Asp Val Leu Arg Ile
210          215          220
Asn Ser Pro Glu Gly Arg Arg Lys Ala Leu Ala Thr Phe Ser Ser His
225          230          235          240
Leu Ala Val Val Ser Leu Tyr Tyr Gly Pro Ala Tyr Ile Tyr Met Thr
245          250          255
Pro Thr Thr Phe His Thr Pro Glu Gln Asn Glu Ile Leu Ala Met Ile
260          265          270
Asn Thr Ile Phe Thr Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg
275          280          285
Asn Lys Glu Val His Ala Ala Leu Arg Lys Val Met Ser Gln Arg Phe
290          295          300
Ile Leu Lys
305
```

<210> 2290

<211> 119

<212> PRT

<213> Mus musculus

<400> 2290

```
Met Ser Asn Tyr Thr Thr Gln Ser Asp Leu Thr Leu Ala Gly Leu Phe
 1          5          10          15
Ser Arg Ser Lys His Pro Val Leu Leu Ala Val Val Ile Phe Val Val
 20          25          30
Phe Leu Met Ala Leu Ser Gly Asn Ala Leu Leu Ile Leu Leu Ile Leu
 35          40          45
```

Ser	Asp	Thr	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser	Gln	Leu
50					55					60					
Ser	Leu	Met	Asp	Met	Arg	Tyr	Ile	Ser	Val	Thr	Val	Pro	Lys	Met	Leu
65				70					75					80	
Met	Asp	Gln	Val	Leu	Gly	Ser	His	Lys	Ile	Ser	Pro	Ala	Ala	Cys	Gly
			85					90						95	
Met	Gln	Met	Phe	Leu	Tyr	Leu	Thr	Leu	Ala	Gly	Ser	Glu	Phe	Phe	Pro
			100					105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Glu									
			115												

<210> 2291  
 <211> 277  
 <212> PRT  
 <213> Mus musculus

<400> 2291

Tyr	Leu	Val	Thr	Val	Phe	Gly	Asn	Leu	Ser	Thr	Ile	Leu	Leu	Ile	Gly
1				5					10					15	
Val	Ser	Ser	Lys	Leu	His	His	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His	Leu
			20					25					30		
Ala	Ser	Val	Asp	Met	Gly	Leu	Ser	Ser	Val	Thr	Pro	Asn	Met	Leu	
		35					40				45				
Val	Asn	Phe	Leu	Thr	Glu	Lys	Asn	Thr	Ile	Ser	Tyr	Leu	Gly	Cys	Gly
	50					55					60				
Ile	Gln	Leu	Ser	Ser	Ala	Ala	Phe	Phe	Gly	Ala	Val	Glu	Phe	Phe	Leu
65					70				75						80
Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Leu	Val	Ala	Ile	Cys	Asn	Pro	Leu
			85					90					95		
Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Val	Cys	Ile	Gln	Leu	Val	Val
			100					105					110		
Gly	Thr	Tyr	Val	Gly	Gly	Phe	Leu	Asn	Ala	Ser	Phe	Val	Thr	His	Phe
		115					120					125			
Phe	Phe	Ser	Phe	Leu	Phe	Cys	Gly	Pro	Asn	Arg	Val	Asn	His	Phe	Phe
	130					135					140				
Cys	Asp	Leu	Ser	Pro	Met	Glu	Leu	Ser	Cys	Ser	Asp	Val	Ser	Ile	
145					150				155					160	
Ser	Glu	Ile	Val	Ile	Ser	Phe	Ser	Ala	Gly	Ser	Phe	Thr	Met	Thr	Thr
			165						170					175	
Leu	Phe	Val	Ile	Val	Ile	Ser	Tyr	Phe	Tyr	Ile	Val	Ile	Thr	Ile	Leu
		180						185					190		
Lys	Met	His	Ser	Thr	Glu	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr	Cys	Met
		195					200					205			
Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Tyr	Tyr	Gly	Thr	Thr	Ile	Phe	Ile
	210					215					220				
Tyr	Val	Met	Pro	Lys	Ser	Ile	Tyr	Ser	Arg	Asp	Gln	Asn	Lys	Val	Val
225					230					235				240	
Ser	Leu	Phe	Tyr	Val	Val	Val	Ile	Pro	Val	Leu	Asn	Pro	Leu	Ile	Tyr
			245						250					255	
Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Asp	Ala	Leu	Lys	Arg	Gln	Phe	Tyr
			260					265						270	
Arg	Lys	Thr	Leu	Leu											
			275												

<210> 2292

<211> 208  
 <212> PRT  
 <213> Mus musculus

<400> 2292

Met	Ile	Ser	Tyr	Gly	Phe	Pro	Gly	Gln	Trp	Asn	His	Thr	Ala	Val	Thr
1				5					10					15	
Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Val	Ile
			20					25					30		
Leu	Phe	Ser	Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn
		35					40					45			
Leu	Ser	Thr	Phe	Leu	Leu	Ile	Arg	Val	Ser	Ser	Gln	Leu	His	His	Pro
	50					55				60					
Met	Tyr	Phe	Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Met	Gly	Leu	Ser
65					70					75					80
Ser	Ser	Val	Thr	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Thr	Glu	Arg	His
				85					90					95	
Ser	Ile	Ser	Tyr	Leu	Gly	Cys	Gly	Ile	Gln	Leu	Ser	Ser	Ala	Ala	Phe
			100				105						110		
Phe	Gly	Ala	Val	Glu	Phe	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg
		115					120					125			
Phe	Ile	Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Leu	Ser	Thr
		130				135					140				
Gln	Val	Cys	Ile	Gln	Leu	Val	Val	Gly	Ser	Tyr	Val	Gly	Gly	Phe	Leu
145					150					155					160
Asn	Ala	Ser	Phe	Val	Thr	His	Phe	Phe	Phe	Ser	Phe	Phe	Phe	Cys	Gly
				165					170					175	
Pro	Asn	Arg	Val	Asn	Tyr	Phe	Phe	Cys	Asp	Phe	Pro	Pro	Met	Met	Glu
			180					185					190		
Leu	Ser	Cys	Ser	Asp	Val	Ser	Val	Ser	Gly	Ile	Val	Ile	Ser	Phe	Thr
		195					200					205			

<210> 2293  
 <211> 177  
 <212> PRT  
 <213> Mus musculus

<400> 2293

Met	Ala	Phe	Ile	Tyr	Asn	Gly	Ser	Gln	Thr	Thr	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Lys	Val	Ile	Leu	Phe	Ser
			20					25					30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Phe	Gly	Asn	Leu	Ser	Thr
		35					40					45			
Ile	Leu	Leu	Ile	Gly	Val	Ser	Ser	Lys	Leu	His	His	Pro	Met	Tyr	Phe
	50					55				60					
Phe	Leu	Ser	His	Leu	Ala	Ser	Val	Asp	Met	Gly	Leu	Ser	Ser	Ser	Val
65					70					75					80
Thr	Pro	Asn	Met	Leu	Val	Asn	Phe	Leu	Thr	Glu	Lys	Asn	Thr	Ile	Ser
			85						90					95	
Tyr	Leu	Gly	Cys	Gly	Ile	Gln	Leu	Ser	Ser	Ala	Ala	Phe	Phe	Gly	Ala
			100				105						110		
Val	Glu	Phe	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Leu	Val	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Thr	Gln	Val	Cys
		130				135					140				

Ile	Gln	Leu	Val	Val	Gly	Thr	Tyr	Val	Gly	Gly	Phe	Leu	Asn	Ala	Ser
145					150					155					160
Phe	Val	Thr	His	Phe	Phe	Phe	Leu	Ser	Phe	Cys	Gly	Pro	Asn	Arg	Val
				165					170					175	

Asn

<210> 2294  
 <211> 189  
 <212> PRT  
 <213> Mus musculus

<400> 2294

Met	Ala	His	Asn	Asn	Glu	Ser	Thr	Val	Ser	Glu	Phe	Val	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Lys	Ser	Trp	Gly	Leu	Gln	Leu	Val	Leu	Phe	Thr	Ile	Phe	Phe
		20						25					30		
Val	Ile	Tyr	Val	Thr	Ser	Val	Leu	Gly	Asn	Ile	Met	Ile	Ile	Val	Ile
		35					40					45			
Ile	Phe	Ser	Asp	Ser	His	Leu	Asn	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Ile	Cys	Gln	Ser	Asn	Phe	Ala	Thr	Pro	Lys
65					70					75					80
Met	Leu	Val	Asp	Phe	Phe	Val	Glu	Tyr	Lys	Thr	Ile	Ser	Phe	Glu	Gly
				85					90					95	
Cys	Met	Ala	Gln	Ile	Phe	Leu	Leu	His	Ser	Phe	Val	Gly	Ser	Glu	Met
			100					105					110		
Met	Leu	Leu	Val	Ala	Met	Gly	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Lys
		115				120						125			
Pro	Leu	His	Tyr	Asn	Leu	Ile	Met	Asn	Arg	Arg	Val	Cys	Ile	Ile	Phe
	130					135					140				
Val	Ser	Ile	Ser	Trp	Ala	Val	Gly	Ile	Leu	His	Ser	Val	Ser	His	Leu
145					150					155					160
Ala	Phe	Thr	Val	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Glu	Val	Asp	Ser
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Leu	Val	Ile	Lys	Leu	Ala	Cys			
			180					185							

<210> 2295  
 <211> 149  
 <212> PRT  
 <213> Mus musculus

<400> 2295

Ala	Leu	Thr	Val	Asn	Leu	Pro	Phe	Cys	Gly	His	Asn	Ile	Ile	Asn	Asn
1				5					10					15	
Ile	Phe	Cys	Asp	Leu	Pro	Leu	Val	Ile	Lys	Leu	Ala	Cys	Ile	Glu	Thr
			20					25					30		
Tyr	Thr	Leu	Glu	Leu	Phe	Val	Ile	Ala	Asp	Ser	Gly	Leu	Leu	Ser	Phe
		35					40					45			
Ile	Ser	Phe	Phe	Leu	Leu	Leu	Val	Ser	Tyr	Thr	Val	Ile	Leu	Leu	Ile
	50					55					60				
Ile	Lys	His	Lys	Ser	Pro	Gly	Ser	Leu	Ser	Lys	Ala	Leu	Ser	Thr	Leu
65					70					75					80
Ser	Ala	His	Ile	Ile	Val	Val	Thr	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe



				85					90				95				
Ile	Tyr	Ala	Trp	Pro	Phe	Gly	Ser	Phe	Ala	Ser	Asn	Thr	Thr	Leu	Ala		
			100						105				110				
Val	Phe	Tyr	Thr	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Ile	Ile	Tyr	Thr		
		115						120				125					
Leu	Arg	Asn	Gln	Glu	Met	Lys	Lys	Ala	Met	Arg	Lys	Leu	Trp	Ile	Gln		
	130					135					140						
Gln	Val	Ser	Cys	Thr													
145																	

<210> 2296  
 <211> 290  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (86)...(91)  
 <223> Any amino acid

<400> 2296

Met	Ala	Val	Thr	Asn	Glu	Ser	His	Pro	Lys	Glu	Phe	Ile	Leu	Leu	Gly		
1				5					10				15				
Phe	Ala	Asn	His	Pro	Trp	Leu	Glu	Leu	Pro	Leu	Phe	Val	Thr	Leu	Leu		
		20					25					30					
Ile	Thr	Tyr	Pro	Met	Ala	Leu	Met	Gly	Asn	Ile	Ala	Ile	Ile	Leu	Val		
	35					40					45						
Ser	Thr	Leu	Asp	Pro	Arg	Leu	Tyr	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Lys		
	50					55				60							
Asn	Leu	Ser	Phe	Leu	Asp	Met	Cys	Tyr	Thr	Thr	Ser	Ile	Val	Pro	Gln		
65				70					75					80			
Met	Leu	Phe	Asn	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	Leu	Ala	Ile	Met		
			85					90					95				
Ser	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Thr	Leu		
		100					105					110					
Ile	Met	Asn	Gln	Arg	Val	Cys	Ile	Leu	Ser	Val	Ser	Ile	Met	Trp	Leu		
	115					120					125						
Thr	Gly	Val	Ile	Phe	Gly	Phe	Ser	Glu	Ala	Thr	Leu	Thr	Leu	Gln	Leu		
	130				135					140							
Pro	Leu	Cys	Gly	Thr	Asn	Lys	Leu	Asp	His	Leu	Leu	Cys	Glu	Ile	Pro		
145				150					155					160			
Val	Leu	Ile	Lys	Thr	Ala	Cys	Gly	Glu	Lys	Glu	Phe	Asn	Glu	Leu	Ala		
			165					170					175				
Leu	Ser	Val	Val	Cys	Ile	Phe	Ile	Leu	Ile	Val	Pro	Leu	Cys	Leu	Ile		
		180					185					190					
Leu	Ala	Ser	Tyr	Val	Asn	Ile	Gly	Cys	Ala	Val	Leu	Arg	Ile	Lys	Ser		
	195					200					205						
Ser	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys	Ser	Ser	His	Leu	Ile		
	210				215					220							
Val	Val	Ser	Leu	Phe	Tyr	Gly	Pro	Gly	Ile	Ser	Met	Tyr	Leu	Gln	Pro		
225			230						235				240				
Ser	Ser	Ser	Ile	Thr	Arg	Asp	Gln	Pro	Lys	Phe	Met	Ala	Leu	Phe	Tyr		
			245					250					255				
Ala	Val	Ile	Thr	Pro	Thr	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn		
		260				265						270					
Lys	Asp	Val	Lys	Gly	Ala	Phe	Lys	Lys	Leu	Leu	Arg	Ser	Ile	Phe	Ser		

275                      280                      285  
 Ser Lys  
 290

<210> 2297  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (197)...(270)  
 <223> Any amino acid

<400> 2297  
 Met Glu Val Asn Arg Ser Gln Val Thr Asp Phe Val Leu Lys Gly Ile  
 1                      5                      10                      15  
 Thr Asp His Thr Glu Leu Gln Val Pro Leu Phe Leu Leu Phe Phe Phe  
                     20                      25                      30  
 Ile Tyr Val Thr Thr Met Val Gly Asn Leu Gly Leu Ile Phe Leu Ile  
                     35                      40                      45  
 Trp Lys Asp Pro His Leu His Thr Pro Met Tyr Tyr Phe Leu Gly Ser  
                     50                      55                      60  
 Leu Ala Phe Ala Asp Ala Cys Thr Ser Ser Ser Val Thr Pro Arg Met  
 65                      70                      75                      80  
 Leu Val Asn Ile Leu Asp Asn Gly Lys Met Ile Ser Leu Ser Glu Cys  
                     85                      90                      95  
 Met Ala Gln Tyr Tyr Val Phe Gly Ser Ser Ala Thr Thr Glu Cys Phe  
                     100                      105                      110  
 Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn Pro  
                     115                      120                      125  
 Leu Leu Tyr Leu Val Val Met Ser Asn Arg Val Cys Thr Cys Leu Ile  
                     130                      135                      140  
 Ser Gly Ser Tyr Ile Ile Gly Phe Leu His Pro Leu Ile His Val Gly  
 145                      150                      155                      160  
 Leu Leu Phe Arg Leu Thr Phe Cys Lys Ser Asn Ile Ile Asp His Phe  
                     165                      170                      175  
 Tyr Cys Glu Ile Leu Pro Leu Tyr Thr Ile Ser Cys Thr Asp Pro Ser  
                     180                      185                      190  
 Ile Asn Ala Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
                     195                      200                      205  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
                     210                      215                      220  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 225                      230                      235                      240  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe Xaa  
                     245                      250                      255  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Met Tyr  
                     260                      265                      270  
 Val Ser Pro Gly Ser Gly Pro Ser Lys Tyr Lys Asn Lys Met Tyr Ser  
                     275                      280                      285  
 Leu Phe Tyr Thr Ile Val Ile Pro Leu Leu Asn Pro Phe Ile Tyr Ser  
                     290                      295                      300  
 Leu Arg Asn Lys Glu Val Leu Gly Ala Leu Arg Lys Ile Ile Lys Ser  
 305                      310                      315                      320

<210> 2298  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 2298  
 Met Thr Val Glu Asn Gln Thr Val Val Ala Val Phe Val Leu Thr Gly  
 1 5 10 15  
 Leu Thr Glu Arg Pro Glu Leu Gln Val Pro Leu Phe Leu Val Phe Phe  
 20 25 30  
 Thr Ile Tyr Leu Ile Thr Met Val Gly Asn Leu Gly Leu Ile Ala Leu  
 35 40 45  
 Ile Trp Lys Asp Pro His Leu His Thr Pro Met Tyr Leu Phe Leu Gly  
 50 55 60  
 Ser Leu Ala Phe Ala Asp Ala Cys Ala Ser Ser Ser Val Thr Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Phe Leu Ser Lys Asp His Arg Thr Phe Leu Val Glu  
 85 90 95  
 Cys Phe Thr Gln Phe Tyr Phe Phe Gly Ser Ser Ala Thr Thr Glu Cys  
 100 105 110  
 Phe Leu Leu Ser Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Asn  
 115 120 125  
 Pro Leu Leu Tyr Pro Val Met Met Ser Asn Ser Leu Cys Met Lys Phe  
 130 135 140  
 Ile His Val Ser Tyr Ile Val Gly Phe Leu His Ser Ala Ile His Val  
 145 150 155 160  
 Gly Leu Leu Val Arg Leu Asn Phe Cys Lys Ser Asn Ile Ile His Tyr  
 165 170 175  
 Phe Tyr Cys Glu Ile Leu Gln Leu Phe Lys Ile Ser Cys Thr Asp Pro  
 180 185 190  
 Thr Met Asn Val Leu Leu Val Leu Ile Phe Ser Ala Leu Ile Gln Gly  
 195 200 205  
 Leu Thr Phe Met Thr Ile Ile Val Ser Tyr Phe Ser Val Leu Leu Ala  
 210 215 220  
 Ile Leu Lys Thr Lys Ser Glu Arg Gly Arg Arg Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ser Ala His Leu Ser Val Ser Leu Phe Tyr Gly Thr Leu Phe  
 245 250 255  
 Leu Met Tyr Val Arg Pro Gly Ser Gly Ser Gly Glu Asp Lys Asp Arg  
 260 265 270  
 Met Tyr Ser Leu Phe Tyr Thr Ile Ile Ile Pro Phe Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Glu Val Thr Ala Ala Leu Arg Arg Lys  
 290 295 300  
 Met Lys  
 305

<210> 2299  
 <211> 236  
 <212> PRT  
 <213> Mus musculus

<400> 2299  
 Ser Ser Thr Val Thr Pro Lys Met Leu Gln Asp Ile Phe Ser Lys Ser  
 1 5 10 15

Lys	Leu	Ile	Ser	Phe	Ser	Glu	Cys	Met	Ile	Gln	Phe	Phe	Ser	Phe	Val
			20					25					30		
Val	Ser	Thr	Thr	Glu	Cys	Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	
		35				40					45				
Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Pro	Val	Ile	Met	Thr
	50				55					60					
Asn	Arg	Leu	Cys	Val	Arg	Leu	Leu	Thr	Leu	Ser	Phe	Leu	Gly	Gly	Phe
65				70					75						80
Ile	His	Ala	Leu	Ile	His	Glu	Gly	Phe	Leu	Phe	Arg	Leu	Ile	Phe	Cys
			85					90					95		
Arg	Ser	His	Ile	Ile	Asn	His	Phe	Tyr	Cys	Asp	Val	Met	Pro	Leu	Leu
		100					105					110			
Lys	Ile	Ser	Cys	Asn	Asp	Pro	Ser	Ile	Asn	Tyr	Leu	Met	Leu	Phe	Ile
		115				120					125				
Phe	Ser	Gly	Ser	Ile	Gln	Val	Phe	Thr	Ile	Thr	Thr	Ile	Leu	Val	Ser
	130					135					140				
Tyr	Thr	Leu	Val	Leu	Phe	Ser	Ile	Leu	Lys	Lys	Lys	Ser	Leu	Lys	Ser
145				150					155						160
Ile	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ala	His	Leu	Leu	Ser	Val	Ser
			165					170					175		
Leu	Tyr	Tyr	Gly	Pro	Leu	Leu	Phe	Met	Tyr	Val	Arg	Pro	Ala	Ser	Pro
		180						185				190			
Gln	Val	Asn	Asp	Glu	Asp	Met	Met	Asp	Ser	Val	Phe	Tyr	Thr	Ile	Ile
		195				200					205				
Ile	Pro	Val	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Glu	Gln	Val
	210					215					220				
Lys	Lys	Ser	Leu	Ala	Lys	Cys	Leu	Arg	Arg	Asn	Ser				
225					230					235					

<210> 2300  
 <211> 306  
 <212> PRT  
 <213> Mus musculus

<400> 2300

Glu	Ile	Lys	Asn	Ser	Thr	Val	Leu	Thr	Glu	Phe	Val	Leu	Thr	Gly	Leu
1			5					10					15		
Thr	Gly	Ser	Pro	Glu	Leu	Gln	Val	Pro	Leu	Phe	Leu	Phe	Phe	Leu	Val
		20					25					30			
Ile	Tyr	Leu	Ile	Thr	Ile	Val	Gly	Asn	Leu	Gly	Leu	Ile	Ala	Leu	Ile
	35					40					45				
Trp	Asn	Asp	Pro	His	Leu	Tyr	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Gly	His
50					55					60					
Leu	Ala	Phe	Val	Asp	Ala	Cys	Leu	Ser	Ser	Thr	Val	Ala	Pro	Lys	Met
65				70					75						80
Leu	Leu	Asp	Phe	Leu	Gln	Met	Asn	Lys	Met	Ile	Ser	Tyr	Ser	Glu	Cys
		85						90					95		
Met	Thr	Gln	Phe	Phe	Ile	Phe	Ala	Ile	Cys	Val	Thr	Thr	Glu	Cys	Phe
		100					105					110			
Leu	Leu	Ser	Ala	Leu	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
	115					120					125				
Leu	Leu	Tyr	Pro	Met	Ile	Met	Thr	Asn	Arg	Leu	Cys	Ile	Cys	Leu	Leu
	130				135					140					
Val	Leu	Ser	Phe	Val	Gly	Gly	His	Ser	Ser	Ile	His	Glu	Gly	Phe	Leu
145				150					155						160
Leu	Leu	Leu	Thr	Phe	Cys	Asn	Ser	Asn	Ile	Val	His	Gln	Phe	Phe	Cys

				165					170					175			
Asp	Thr	Val	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Thr	Asp	Thr	Thr	Leu	Asn		
			180					185						190			
Phe	Gln	Leu	Leu	Phe	Val	Phe	Ala	Gly	Ile	Ile	Gln	Val	Leu	Thr	Val		
		195					200					205					
Leu	Ile	Val	Phe	Val	Ser	Tyr	Thr	Leu	Val	Leu	Phe	Met	Ile	Leu	Gln		
	210					215					220						
Arg	Lys	Ser	Val	Gln	Gly	Met	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ala		
225				230						235					240		
His	Leu	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Pro	Leu	Leu	Ile	Met	Tyr		
			245						250					255			
Val	Phe	Pro	Val	Ser	Gln	Glu	Ala	Asp	Gly	Gln	Asp	Ile	Ile	Asp	Ser		
		260					265						270				
Leu	Phe	Tyr	Thr	Ile	Ile	Ile	Pro	Val	Leu	Asn	Pro	Ile	Ile	Tyr	Ser		
	275					280					285						
Leu	Arg	Asn	Lys	Gln	Val	Ile	Asp	Ser	Leu	Lys	Lys	Val	Leu	Lys	Lys		
	290					295					300						
Lys	Val																
305																	

<210> 2301  
 <211> 161  
 <212> PRT  
 <213> Mus musculus

<400> 2301																	
Phe	Leu	Gly	Gly	Phe	Ile	His	Ala	Leu	Ile	His	Glu	Ser	Phe	Leu	Phe		
1				5				10						15			
Arg	Leu	Ile	Phe	Cys	Ser	Ser	His	Ile	Ile	His	His	Phe	Tyr	Cys	Asp		
		20					25						30				
Val	Ile	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Asn	Asp	Pro	Ser	Ile	Asn	Tyr		
	35					40						45					
Leu	Met	Leu	Phe	Ile	Phe	Ser	Gly	Ser	Ile	Gln	Val	Phe	Thr	Ile	Thr		
	50				55					60							
Thr	Ile	Leu	Val	Ser	Tyr	Thr	Leu	Val	Leu	Phe	Ser	Ile	Leu	Lys	Lys		
65				70					75					80			
Lys	Ser	Leu	Lys	Ser	Ile	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ala	His		
			85					90						95			
Leu	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Pro	Leu	Leu	Phe	Met	Tyr	Val		
		100					105						110				
Arg	Pro	Ala	Ser	Pro	Gln	Val	Asn	Asp	Glu	Asp	Met	Met	Asp	Ser	Val		
		115				120						125					
Phe	Tyr	Thr	Ile	Ile	Ile	Pro	Val	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu		
	130				135					140							
Arg	Asn	Lys	Gln	Val	Lys	Lys	Ser	Leu	Ala	Lys	Phe	Leu	Arg	Arg	Asn		
145					150					155					160		
Thr																	

<210> 2302  
 <211> 141  
 <212> PRT  
 <213> Mus musculus

<400> 2302

Phe	Cys	Arg	Ser	His	Val	Ile	Lys	His	Phe	Phe	Cys	Asp	Val	Pro	Pro
1				5					10					15	
Leu	Tyr	Arg	Leu	Ser	Cys	Val	Asp	Pro	Tyr	Ile	Asn	Glu	Leu	Met	Ile
			20					25					30		
Leu	Ile	Val	Ala	Gly	Ser	Val	Gln	Thr	Phe	Ser	Ile	Ile	Ile	Val	Leu
		35					40					45			
Ile	Ser	Tyr	Phe	Cys	Ile	Leu	Tyr	Thr	Ile	Phe	Thr	Met	Lys	Ser	Arg
	50					55					60				
Glu	Gly	Arg	Ser	Lys	Ala	Leu	Ser	Thr	Cys	Ala	Ser	His	Phe	Leu	Ser
65					70					75					80
Val	Ser	Ile	Phe	Tyr	Gly	Ser	Leu	Leu	Tyr	Thr	Tyr	Ile	Arg	Pro	Ser
				85					90					95	
Ser	Ile	Lys	Gly	Gly	Asp	Glu	Ala	Ile	Pro	Val	Ala	Ile	Phe	Tyr	Thr
			100					105					110		
Leu	Val	Ile	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys
		115					120					125			
Glu	Val	Ile	Asn	Val	Ile	Lys	Lys	Thr	Ile	Asn	Lys	Gly			
	130					135					140				

<210> 2303  
 <211> 133  
 <212> PRT  
 <213> Mus musculus

<400> 2303

Phe	Tyr	Cys	Asp	Val	Met	Pro	Leu	Leu	Ser	Ile	Ser	Cys	Asn	Asp	Pro
1				5					10					15	
Ser	Ile	Asn	Tyr	Leu	Met	Leu	Phe	Ile	Phe	Ser	Gly	Ser	Ile	Gln	Val
			20					25					30		
Phe	Thr	Ile	Thr	Thr	Ile	Leu	Val	Ser	Tyr	Thr	Leu	Val	Leu	Phe	Ser
		35				40						45			
Ile	Leu	Lys	Gln	Lys	Ser	Leu	Lys	Ser	Ile	Lys	Lys	Ala	Phe	Ser	Thr
	50					55					60				
Cys	Gly	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Pro	Leu	Leu
65				70					75						80
Phe	Met	Tyr	Val	Arg	Pro	Ala	Ser	Pro	Gln	Val	Asn	Asp	Glu	Asp	Met
				85				90						95	
Met	Asp	Ser	Val	Phe	Tyr	Thr	Ile	Ile	Pro	Val	Leu	Asn	Pro	Pro	Ile
			100				105					110			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Gln	Val	Lys	Lys	Ser	Leu	Ala	Lys	Phe
		115				120						125			
Leu	Arg	Arg	Asn	Thr											
	130														

<210> 2304  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 2304

Met	Glu	Asn	Asp	Ser	Phe	Val	Ser	Glu	Phe	Ile	Leu	Met	Gly	Leu	Thr
1				5					10					15	
Asp	His	Pro	Glu	Leu	Gln	Leu	Ser	Leu	Phe	Val	Leu	Phe	Leu	Met	Asn
			20					25					30		
Tyr	Thr	Ala	Ile	Val	Met	Gly	Asn	Leu	Ser	Leu	Met	Ile	Leu	Ile	Phe



Cys	Cys	Val	Leu	Ile	Ser	Met	Ala	Tyr	Asp	Asn	Tyr	Met	Ala	Val	Cys
		115					120					125			
Asn	Pro	Val	Leu	Tyr	Asn	Ile	Thr	Ile	Ser	Pro	Lys	Val	Cys	Ser	Tyr
	130					135					140				
Leu	Met	Leu	Gly	Ser	His	Ile	Met	Arg	Phe	Ser	Gly	Ala	Met	Ile	His
145					150						155				160
Thr	Gly	Ser	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Asp	Arg	Ser	Ile	Ile	Lys
			165						170					175	
His	Tyr	Phe	Cys	Glu	Leu	Phe	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Ser
			180					185					190		
Ile	Tyr	Ala	Asn	Glu	Ile	Glu	Ile	Leu	Ile	Ile	Asp	Ser	Lys	Asp	Ile
		195						200				205			
Ile	Val	Ser	Ser	Val	Ile	Ile	Phe	Thr	Ser	Tyr	Gly	Phe	Ile	Leu	Ser
	210					215					220				
Asn	Ile	Leu	Gln	Met	Arg	Ser	Thr	Ala	Gly	Met	Ser	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ile	Ser	His	Ile	Leu	Thr	Phe	Ser	Leu	Phe	Phe	Gly	Ser	Cys
				245					250					255	
Ala	Leu	Met	Tyr	Leu	His	Pro	Ser	Ser	Pro	Gly	Ser	Met	Asp	Gln	Gly
			260					265					270		
Lys	Val	Ser	Ser	Val	Phe	Tyr	Ile	Ile	Val	Val	Pro	Met	Met	Asn	Pro
		275					280					285			
Leu	Ile	Phe	Ser	Phe	Arg	Asn	Lys	Asp	Ile	Lys	Ile	Ala	Leu	Arg	Lys
	290					295					300				
Val	Leu	Ser	Lys	Lys	Arg	Phe	Leu								
305					310										

<210> 2306  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2306

Met	Ala	Ser	Gly	Asn	Asp	Ser	Thr	Thr	Val	Lys	Glu	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Leu	Thr	Gln	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Phe	Phe	Phe	Leu	Phe
			20					25					30		
Leu	Gly	Ile	Tyr	Val	Val	Ser	Ile	Val	Gly	Asn	Leu	Gly	Leu	Ile	Val
	35						40					45			
Leu	Ile	Val	Leu	Asn	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu
	50					55					60				
Phe	Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Tyr	Ser	Ser	Val	Ile	Thr	Pro
65					70					75					80
Lys	Met	Leu	Val	Gly	Phe	Val	Lys	Gln	Asn	Ile	Ile	Ser	His	Ala	Glu
			85					90						95	
Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Ala	Phe	Phe	Val	Ile	Asp	Glu	Cys
			100					105					110		
Cys	Ile	Leu	Thr	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115						120					125			
Pro	Leu	Leu	Tyr	Lys	Val	Thr	Met	Ser	Tyr	Gln	Val	Cys	Phe	Met	Met
	130					135					140				
Thr	Val	Ser	Val	Tyr	Met	Met	Gly	Phe	Val	Gly	Ala	Ile	Ala	His	Thr
145					150					155					160
Ile	Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Gly	Asn	Ile	Ile	Asn	His
			165						170					175	
Tyr	Met	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr	Asn	Thr



		180					185				190				
Ser	Val	Asn	Glu	Leu	Val	Val	Phe	Ile	Val	Val	Gly	Val	Asn	Val	Ile
		195					200					205			
Gly	Pro	Thr	Leu	Ile	Ile	Phe	Thr	Ser	Tyr	Thr	Leu	Ile	Ile	Phe	Asn
		210					215					220			
Ile	Ser	His	Ile	Arg	Ser	Thr	Glu	Gly	Arg	Ser	Lys	Ala	Ile	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Ile	Ile	Ala	Val	Ser	Ile	Phe	Phe	Gly	Ala	Ser	Ala
			245						250					255	
Phe	Met	Tyr	Leu	Lys	Pro	Ser	Pro	Val	Gly	Ser	Val	Gly	Glu	Asp	Lys
			260					265					270		
Val	Ser	Thr	Val	Phe	Tyr	Thr	Ile	Val	Gly	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	His	Ile	Ala	Leu	His	Lys	Thr
	290				295						300				
Leu	Lys	Lys	Ser	Met	Leu	Ile									
305					310										

<210> 2307  
 <211> 235  
 <212> PRT  
 <213> Mus musculus

<400> 2307

Met	Asp	Ser	Phe	Asn	Ala	Thr	Leu	Glu	Glu	Arg	Phe	Phe	Leu	Val	Gly
1				5					10					15	
Phe	Leu	Asp	Trp	Pro	Gln	Leu	Glu	Leu	Ile	Leu	Phe	Val	Phe	Ile	Ser
		20						25					30		
Ile	Phe	Tyr	Ser	Leu	Thr	Ile	Phe	Gly	Asn	Thr	Ala	Ile	Ile	Ala	Leu
		35					40					45			
Ser	Gln	Met	Asp	Leu	Arg	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser
	50					55				60					
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Thr	Ser	Thr	Val	Pro	Gln
65				70					75					80	
Leu	Leu	Ile	Asn	Leu	His	Gly	Leu	Asp	Arg	Thr	Ile	Ser	Tyr	Gly	Gly
			85					90					95		
Cys	Val	Ala	Gln	Leu	Phe	Ile	Ser	Leu	Ala	Leu	Gly	Ser	Thr	Glu	Cys
		100						105					110		
Val	Leu	Leu	Val	Val	Met	Ala	Phe	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg
		115					120					125			
Pro	Leu	His	Tyr	Met	Thr	Ile	Met	His	Pro	Leu	Leu	Cys	Gln	Ala	Leu
	130					135					140				
Ala	Leu	Ala	Ser	Trp	Val	Gly	Gly	Phe	Leu	Asn	Ser	Leu	Ile	Gln	Thr
145				150					155					160	
Gly	Leu	Met	Met	Ala	Met	Pro	Leu	Cys	Gly	His	Arg	Leu	Asn	His	Phe
			165					170					175		
Phe	Cys	Glu	Met	Pro	Val	Phe	Leu	Lys	Leu	Ala	Cys	Gln	Asp	Thr	Gly
		180						185				190			
Gly	Thr	Glu	Ala	Lys	Met	Phe	Val	Ala	Arg	Ala	Ile	Ile	Leu	Val	Phe
	195						200				205				
Pro	Ala	Thr	Leu	Ile	Leu	Gly	Ser	Tyr	Gly	His	Ile	Ala	Lys	Ala	Val
	210				215						220				
Leu	Lys	Val	Lys	Ser	Thr	Ala	Gly	Arg	Arg	Lys					
225				230						235					

<210> 2308  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2308

Met	Gln	Asn	Gln	Ser	Ile	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Ser
1				5					10					15	
Gln	Asn	Pro	Lys	Val	Glu	Lys	Ile	Leu	Ser	Val	Leu	Phe	Phe	Leu	Val
		20						25					30		
Tyr	Leu	Ala	Thr	Ile	Gly	Gly	Asn	Ile	Ile	Ile	Val	Val	Thr	Ile	Val
		35					40					45			
Phe	Ser	Pro	Ala	Leu	Ser	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Phe
		50				55					60				
Leu	Ser	Phe	Leu	Asp	Ala	Cys	Val	Ser	Ser	Val	Ile	Thr	Pro	Lys	Met
65				70						75				80	
Ile	Val	Asp	Phe	Phe	Tyr	Glu	Arg	Lys	Thr	Ile	Ser	Phe	Glu	Cys	Cys
			85						90					95	
Met	Ile	Gln	Leu	Phe	Ala	Val	His	Phe	Phe	Thr	Gly	Val	Glu	Val	Ile
		100						105					110		
Val	Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
		115					120					125			
Leu	His	Tyr	Ser	Ser	Ile	Met	Thr	Gln	Arg	Leu	Cys	Gly	Ile	Leu	Val
		130				135					140				
Gly	Ile	Ala	Trp	Ala	Gly	Gly	Phe	Leu	His	Ser	Ile	Ile	Gln	Ile	Ile
145					150					155				160	
Phe	Thr	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe
			165						170					175	
Val	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Thr	Asn	Thr	His
		180						185					190		
Ile	Phe	Val	Ile	Leu	Val	Phe	Ala	Asn	Ser	Gly	Ser	Ile	Cys	Ile	Ile
		195					200					205			
Ile	Phe	Ser	Ile	Leu	Leu	Val	Ser	Tyr	Gly	Val	Ile	Leu	Phe	Ser	Leu
		210				215					220				
Arg	Asn	His	Ser	Ser	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly
225					230					235				240	
Ser	His	Ile	Thr	Gly	Val	Leu	Leu	Phe	Phe	Val	Pro	Cys	Ile	Leu	Ile
			245						250					255	
Tyr	Ala	Arg	Asn	Asn	Ser	Glu	Phe	Ser	Phe	Glu	Lys	Asn	Val	Phe	Ile
			260					265					270		
Phe	Asp	Asp	Val	Leu	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ala	Tyr	Thr	Phe
		275					280					285			
Arg	Asn	Lys	Glu	Met	Lys	Asn	Ala	Ile	Lys	Lys	Met	Trp	Arg	Arg	Leu
		290				295					300				
Phe	Asn	Ile	Ser	Asp	Lys	His									
305					310										

<210> 2309  
 <211> 264  
 <212> PRT  
 <213> Mus musculus

<400> 2309

Met	Asn	Ser	Ile	Tyr	Phe	Asn	Ile	Leu	Leu	Glu	Ile	Met	Gln	Asn	Gln
1				5					10					15	
Ser	Phe	Val	Thr	Glu	Phe	Ile	Phe	Leu	Gly	Leu	Ser	Gln	Asn	Pro	Lys

		20						25					30				
Val	Gln	Lys	Ile	Val	Phe	Ile	Val	Phe	Leu	Phe	Val	Tyr	Ile	Ala	Thr		
		35					40					45					
Val	Gly	Gly	Asn	Met	Ile	Ile	Val	Val	Thr	Ile	Val	Cys	Ser	Pro	Ala		
	50					55					60						
Leu	Ile	Asp	Cys	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Phe	Leu	Ser	Leu	Leu		
65					70					75					80		
Asp	Ala	Cys	Phe	Ser	Ser	Val	Ile	Thr	Pro	Lys	Met	Val	Val	Asp	Ser		
				85					90					95			
Leu	Tyr	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Glu	Gly	Cys	Met	Met	Gln	Leu		
			100					105					110				
Phe	Ala	Glu	His	Phe	Leu	Ala	Ala	Val	Glu	Val	Ile	Val	Leu	Thr	Ala		
		115				120						125					
Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Ser		
	130					135					140						
Ser	Ile	Met	Asn	Trp	Arg	Leu	Cys	Gly	Thr	Leu	Met	Gly	Ile	Ala	Trp		
145				150						155					160		
Thr	Gly	Gly	Phe	Leu	His	Ser	Ile	Ile	Gln	Ile	Ile	Phe	Thr	Leu	Gln		
			165						170					175			
Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Ile	Asp	His	Phe	Met	Cys	Asp	Leu		
		180						185					190				
Phe	Pro	Leu	Glu	Leu	Ala	Cys	Thr	Asp	Thr	His	Ile	Phe	Gly	Leu			
	195					200					205						
Leu	Val	Val	Ala	Asn	Ser	Gly	Ser	Ile	Cys	Ile	Ile	Ile	Phe	Ser	Ile		
	210					215					220						
Leu	Leu	Val	Ser	Tyr	Gly	Val	Ile	Leu	Phe	Ser	Leu	Lys	Asp	His	Ser		
225					230					235					240		
Ser	Glu	Gly	Arg	Trp	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Ile	Ala		
			245						250					255			
Val	Val	Val	Leu	Phe	Phe	Val	Pro										
			260														

<210> 2310  
 <211> 344  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (124)...(301)  
 <223> Any amino acid

<400> 2310  
 Met Trp Ile His Leu Glu Phe Met Glu Asn His Lys Asn Val Thr Glu  
 1 5 10 15  
 Phe Ile Phe Met Gly Leu Trp Glu Asn Arg Gln Ile Glu Leu Leu Phe  
 20 25 30  
 Phe Leu Leu Phe Leu Leu Cys Tyr Leu Ala Val Leu Met Gly Asn Ser  
 35 40 45  
 Val Ile Leu Leu Thr Ile Thr Cys Ser His Leu Ile Glu Gln Pro Met  
 50 55 60  
 Tyr Tyr Phe Leu Cys His Leu Ser Leu Met Asp Leu Cys Tyr Thr Ser  
 65 70 75 80  
 Thr Val Ile Pro Arg Leu Ile Arg Asp Leu Ala Ala Thr Arg Lys Asn  
 85 90 95  
 Ile Ser Tyr Asn Glu Cys Met Thr Gln Leu Phe Thr Ala His Leu Leu

			100					105				110					
Ala	Gly	Val	Glu	Ile	Phe	Ile	Leu	Val	Ser	Arg	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		115					120					125					
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		130					135					140					
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
145						150						155					160
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				165						170						175	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			180							185					190		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		195							200					205			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		210					215					220					
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
225						230					235						240
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe
				245						250						255	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		260								265					270		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
		275								280					285		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Tyr	Thr	
		290					295					300					
Val	Ile	Ala	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Ser		
305					310							315				320	
Glu	Met	Lys	Ser	Ala	Met	His	Lys	Val	Trp	Ser	Arg	Leu	Ser	Leu	Arg		
				325						330					335		
Val	Glu	Val	Ser	Glu	Arg	Ile	Leu										
			340														

<210> 2311  
 <211> 157  
 <212> PRT  
 <213> Mus musculus

<400> 2311

Ser	Ile	Ile	Gln	Ile	Ile	Phe	Thr	Leu	Gln	Leu	Pro	Phe	Cys	Gly	Pro		
1				5					10					15			
Asn	Val	Ile	Asp	His	Phe	Met	Cys	Asp	Leu	Phe	Pro	Leu	Leu	Glu	Leu		
			20					25					30				
Ala	Cys	Thr	Asn	Thr	Tyr	Val	Tyr	Gly	Leu	Leu	Val	Phe	Ala	Asn	Ser		
		35					40					45					
Gly	Ser	Ile	Cys	Ile	Ile	Ile	Phe	Ser	Met	Leu	Leu	Ile	Ser	Tyr	Gly		
	50				55						60						
Val	Ile	Leu	Phe	Ser	Leu	Arg	Ser	His	Ser	Ser	Glu	Gly	Arg	Trp	Lys		
65					70					75					80		
Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Ile	Ala	Val	Val	Val	Ser	Phe	Phe		
			85						90					95			
Val	Pro	Cys	Ile	Phe	Ile	Tyr	Ala	Arg	Ser	Thr	Ser	Ala	Ser	Ser	Phe		
		100						105					110				
Glu	Lys	Lys	Val	Ala	Val	Phe	Asp	Gly	Ile	Met	Thr	Pro	Leu	Leu	Asn		
		115					120					125					
Pro	Leu	Ile	Tyr	Thr	Phe	Arg	Asn	Lys	Glu	Met	Lys	Asn	Ala	Ile	Arg		
		130				135						140					

Lys Met Trp Asn Arg Phe Arg Met Val Ser Asp Lys Phe  
 145 150 155

<210> 2312  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (153)...(226)  
 <223> Any amino acid

<400> 2312  
 Met Gly Gln Ser Asn Asn Val Thr Glu Phe Val Leu Leu Gly Phe Thr  
 1 5 10 15  
 Gln Asp Pro Ala Gly Gln Lys Ala Leu Phe Val Met Phe Ser Leu Met  
 20 25 30  
 Tyr Ile Ala Thr Met Val Gly Asn Leu Leu Ile Val Gly Thr Val Ile  
 35 40 45  
 Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Ser Leu  
 50 55 60  
 Ser Leu Met Asp Ala Val Tyr Ser Thr Ala Ile Ser Pro Lys Leu Ile  
 65 70 75 80  
 Val Asp Leu Leu Arg Glu Lys Lys Thr Ile Ser Phe Arg Ala Cys Ile  
 85 90 95  
 Ser Gln Leu Phe Ile Glu His Leu Phe Gly Gly Val Asp Ile Val Ile  
 100 105 110  
 Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Leu Ile Ile Met Asn Arg Arg Val Cys Ile Leu Leu Leu Val  
 130 135 140  
 Met Ala Trp Ala Gly Gly Phe Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 145 150 155 160  
 Xaa Xaa Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 165 170 175  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 180 185 190  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 195 200 205  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 210 215 220  
 Xaa Xaa Leu Ser Thr Cys Gly Ser His Ile Thr Val Val Phe Leu Phe  
 225 230 235 240  
 Phe Val Pro Cys Ile Phe Met Tyr Val Arg Pro Val Ser Ser Phe Pro  
 245 250 255  
 Ile Asp Lys Ser Ile Thr Val Ile Tyr Thr Ile Val Thr Pro Met Leu  
 260 265 270  
 Asn Pro Leu Ile Tyr Thr Leu Arg Asn Ser Glu Met Lys Ile Ser Met  
 275 280 285  
 Glu Lys Leu Leu Gln Lys Thr Leu Ser Pro Cys Arg Ile Arg Leu Ser  
 290 295 300  
 Ser Cys Cys Leu Cys Tyr  
 305 310

<210> 2313  
 <211> 120  
 <212> PRT  
 <213> Mus musculus

<400> 2313  
 Met Gly Gln Ser Asn Asn Val Thr Glu Phe Val Leu Leu Gly Phe Thr  
 1 5 10 15  
 Gln Asp Pro Ala Gly Gln Lys Ala Leu Ser Val Met Phe Ser Leu Ile  
 20 25 30  
 Tyr Ile Val Thr Met Val Gly Asn Leu Leu Ile Val Gly Thr Val Ile  
 35 40 45  
 Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Ser Leu  
 50 55 60  
 Ser Leu Met Asp Ala Ile Tyr Ser Thr Ala Ile Thr Pro Lys Leu Ile  
 65 70 75 80  
 Val Asp Leu Leu Cys Glu Lys Lys Thr Ile Ser Phe Arg Ala Cys Ile  
 85 90 95  
 Ser Gln Leu Phe Ile Asp His Leu Phe Gly Gly Val Asp Ile Val Ile  
 100 105 110  
 Leu Leu Ala Met Ala Leu Asp Arg  
 115 120

<210> 2314  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2314  
 Met Glu Arg Val Asn Gln Ser Val Val Ser Glu Phe Val Phe Leu Gly  
 1 5 10 15  
 Leu Thr Asn Ser Trp Ser Ile Gln Leu Phe Leu Phe Val Phe Ser Ser  
 20 25 30  
 Thr Phe Tyr Val Ala Ser Met Met Gly Asn Ser Leu Ile Val Phe Thr  
 35 40 45  
 Val Ala Ser Asp Pro His Leu His Ser Pro Met Tyr Phe Leu Leu Ala  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Leu Gly Val Ser Ser Val Thr Ser Pro Lys  
 65 70 75 80  
 Met Ile Tyr Asp Leu Phe Arg Lys His Lys Val Ile Ser Phe Thr Gly  
 85 90 95  
 Cys Val Thr Gln Ile Phe Phe Ile His Val Ile Gly Gly Val Glu Met  
 100 105 110  
 Val Leu Leu Ile Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys Lys  
 115 120 125  
 Pro Leu His Tyr Leu Thr Ile Met Ser Pro Arg Met Cys Ile Leu Phe  
 130 135 140  
 Ser Val Thr Ala Trp Val Val Gly Leu Met His Ser Leu Ile Gln Leu  
 145 150 155 160  
 Ala Phe Val Val Asn Leu Pro Phe Cys Gly Pro Asn Val Leu Asp Ser  
 165 170 175  
 Phe Tyr Cys Asp Leu Pro Arg Phe Ile Lys Leu Ala Cys Ile Asn Thr  
 180 185 190  
 Tyr Gln Leu Glu Leu Met Val Thr Ala Asn Ser Gly Phe Ile Ser Val  
 195 200 205  
 Gly Ser Phe Phe Ile Leu Ile Ile Ser Tyr Ile Val Ile Ile Thr

210		215		220
Val Gln Lys His Ser	Ser Ser Gly Ser Ser Lys	Ala Leu Ser Thr Leu		
225	230	235	240	
Ser Ala His Ile Ser	Val Val Phe Leu Phe Phe Gly	Pro Leu Ile Phe		
	245	250	255	
Phe Tyr Thr Trp	Pro Ser Pro Ser Thr His Leu	Asp Lys Phe Leu Ala		
	260	265	270	
Ile Phe Asp Ala Val Ile Thr	Pro Phe Leu Asn Pro Ile Ile Tyr Thr			
	275	280	285	
Phe Arg Asn Gln Glu Met Lys Val	Ala Met Lys Arg Val Cys Arg Gln			
	290	295	300	
Leu Val Ser Tyr Arg Lys Ala Ser				
305	310			

<210> 2315  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 2315

Met Asp Gly Gly Asn His Ser Met Val Ser Glu Phe Leu Leu Leu Gly				
1	5	10	15	
Leu Thr Asn Ser Trp Arg Ile Gln Ile Leu Leu Phe Leu Phe Phe Thr				
	20	25	30	
Val Phe Tyr Val Ala Ser Met Leu Gly Asn Leu Leu Ile Val Leu Thr				
	35	40	45	
Ile Ile Ser Asp His His Leu His Ser Pro Met Tyr Phe Leu Leu Ala				
	50	55	60	
Asn Leu Ser Phe Ile Asp Thr Gly Val Ser Ser Ile Ala Thr Pro Lys				
65	70	75	80	
Met Ile Tyr Asp Leu Phe Arg Lys His Lys Val Ile Ser Leu Asn Gly				
	85	90	95	
Cys Ile Thr Gln Met Phe Phe Ile His Thr Val Gly Gly Thr Glu Met				
	100	105	110	
Val Leu Leu Ile Val Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Lys				
	115	120	125	
Pro Leu His Tyr Leu Thr Ile Met Ser Leu Arg Met Cys Ile Val Leu				
	130	135	140	
Leu Ala Leu Ala Trp Ile Ile Gly Leu Ile His Ser Val Ala Gln Leu				
145	150	155	160	
Ala Phe Val Val Asn Leu Pro Phe Cys Gly Ala Asn Lys Met Asp Ser				
	165	170	175	
Phe Tyr Cys Asp Phe Pro Arg Phe Ile Lys Leu Ala Cys Thr Asp Thr				
	180	185	190	
Tyr Arg Leu Glu Phe Leu Val Ala Ala Asn Ser Gly Phe Ile Ser Met				
	195	200	205	
Ala Thr Phe Phe Ile Leu Ile Val Ser Tyr Ile Phe Ile Leu Val Thr				
	210	215	220	
Val Arg Lys His Ser Ser Gly Ala Ser Ser Lys Ala Leu Ser Thr Leu				
225	230	235	240	
Ser Ala His Ile Thr Val Val Val Phe Phe Phe Gly Pro Cys Ile Ile				
	245	250	255	
Val Tyr Val Trp Pro Phe Pro Thr Leu Pro Ile Asp Lys Phe Leu Ala				
	260	265	270	
Ile Phe Asp Val Ile Ile Thr Pro Phe Met Asn Pro Leu Ile Tyr Thr				
	275	280	285	





<210> 2317  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 2317  
 Met Ala Glu Glu Thr Arg Asn Arg Thr Trp Val Arg Glu Phe Val Leu  
 1 5 10 15  
 Glu Gly Phe Pro Val Ala Glu His Leu Arg Ile Leu Phe Phe Leu Met  
 20 25 30  
 His Leu Leu Ala Tyr Leu Ala Ser Ile Met Gly Asn Thr Leu Ile Ile  
 35 40 45  
 Ser Ile Thr Cys Val Asp His Arg Leu Gln Thr Pro Met Tyr Phe Phe  
 50 55 60  
 Leu Ser Thr Tyr Ser Phe Val Glu Cys Cys Phe Ile Thr Thr Val Ile  
 65 70 75 80  
 Pro Gln Leu Leu Ala Ile Phe Leu Ser Gly Arg Gln Thr Ile Ser Phe  
 85 90 95  
 Val Ala Cys Phe Thr Gln Ala Leu Val Val Phe Val Leu Gly Ala Thr  
 100 105 110  
 Val Phe Phe Leu Leu Ala Val Leu Ser Leu Asp Arg Tyr Leu Ala Ile  
 115 120 125  
 Cys Lys Pro Leu His Tyr Pro Thr Ile Met Ser Pro Arg Met Cys Phe  
 130 135 140  
 Leu Leu Val Thr Val Cys Leu Val Leu Gly Phe Leu Phe Met Ala Gly  
 145 150 155 160  
 Pro Val Val Met Leu Ser Gln Ser Ser Tyr Cys Gly Pro Asn Val Ile  
 165 170 175  
 Pro His Phe Phe Cys Asp Phe Gly Pro Leu Ala Asn Leu Ser Cys Ser  
 180 185 190  
 Asp Thr Met Ser Val Glu Met Leu Phe Phe Asn Leu Ala Leu Ile Val  
 195 200 205  
 Leu Phe Gly Ser Leu Leu Val Ala Ile Phe Ala Tyr Ser Asn Ile Val  
 210 215 220  
 Val Thr Ile Val Gly Leu Pro Ser Ala Arg Glu Lys Gln Arg Ala Phe  
 225 230 235 240  
 Ser Thr Cys Ser Ser His Leu Ile Val Leu Ser Leu Met Tyr Gly Ser  
 245 250 255  
 Cys Val Phe Ile Tyr Met Lys Pro Lys Gln Thr Ser Arg Leu Asp Thr  
 260 265 270  
 Asn Arg Glu Ala Ala Leu Val Asn Met Val Val Thr Pro Leu Leu Asn  
 275 280 285  
 Pro Val Ile Tyr Thr Leu Arg Asn Lys Gln Val His Gln Ala Leu Arg  
 290 295 300  
 Asp Ala Leu Ser Arg Val Gln Leu Pro Arg Tyr His Arg Ser Ser Ala  
 305 310 315 320  
 Pro Ser Leu

<210> 2318  
 <211> 327  
 <212> PRT  
 <213> Mus musculus

<400> 2318  
 Met Glu Arg Leu Thr Ala Glu Glu Thr Arg Asn Gly Thr Trp Val Gln



Met Asn Ile His Leu  
65

<210> 2320  
<211> 310  
<212> PRT  
<213> Mus musculus

<400> 2320  
Met Gly Lys Glu Asn Gln Thr Trp Val Ser Glu Phe Leu Leu Leu Gly  
1 5 10 15  
Leu Ser Ser Asp Trp Trp Thr Gln Val Ser Leu Phe Val Leu Phe Leu  
20 25 30  
Ala Met Tyr Leu Leu Thr Val Leu Gly Asn Leu Leu Ile Ile Leu Leu  
35 40 45  
Ile Thr Leu Asp Ser Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
50 55 60  
Ile Leu Ser Phe Val Asp Ile Cys Tyr Thr Asn Ser Thr Val Pro Gln  
65 70 75 80  
Met Leu Val His Phe Leu Ser Ala Arg Lys Ser Ile Pro Phe His Ser  
85 90 95  
Cys Val Met Gln Leu Tyr Ile Ser Leu Ala Met Gly Ser Thr Glu Phe  
100 105 110  
Phe Leu Leu Gly Ala Met Ala Tyr Asp Arg Tyr Val Ala Val Cys Tyr  
115 120 125  
Pro Leu His Tyr Met Val Ile Met His Gly Gly Leu Cys Leu Gly Leu  
130 135 140  
Ala Ser Ala Cys Leu Thr Ala Gly Leu Thr Asn Ser Leu Met Gln Thr  
145 150 155 160  
Leu Met Ile Phe His Leu Pro Phe Cys Arg Lys Val Ile Asn His Phe  
165 170 175  
Ala Cys Glu Met Leu Ala Val Leu Arg Leu Ser Cys Val Asp Ile Ser  
180 185 190  
Leu Asn Lys Val Met Val Ala Ile Ser Gly Phe Leu Val Ile Met Leu  
195 200 205  
Pro Cys Ile Leu Val Leu Phe Ser Tyr Ala His Ile Val Ala Ala Ile  
210 215 220  
Leu Arg Ile Arg Ser Ser Gln Gly Arg Lys Ala Phe Gly Thr Cys Ala  
225 230 235 240  
Ser His Leu Thr Val Val Ser Met Cys Phe Gly Thr Ala Ile Phe Thr  
245 250 255  
Tyr Met Arg Pro Val Gly Arg Ser Ser Ala Gly Gln Glu Lys Met Val  
260 265 270  
Ala Leu Phe Tyr Ala Val Val Thr Pro Met Leu Asn Pro Leu Ile Tyr  
275 280 285  
Ser Leu Arg Asn Asn Asp Val Ile Gly Ala Leu Lys Arg Thr Leu Glu  
290 295 300  
Lys Leu Lys Glu Lys Lys  
305 310

<210> 2321  
<211> 288  
<212> PRT  
<213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (117)...(124)  
 <223> Any amino acid

<221> VARIANT  
 <222> (126)...(134)  
 <223> Any amino acid

<400> 2321

Met	Arg	Glu	Asn	Met	Thr	Trp	Val	Ser	Glu	Phe	Ile	Leu	Met	Gly	Leu
1				5					10					15	
Thr	Ser	Asp	Lys	Asn	Ile	Gln	Ala	Gly	Leu	Phe	Val	Leu	Phe	Gly	Val
			20					25					30		
Thr	Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Gly	Leu	Ile	Val	Leu	Leu	Ile
		35					40					45			
Ala	Leu	Asp	Pro	Arg	Leu	His	Leu	Pro	Met	Tyr	Phe	Phe	Leu	Cys	His
	50					55					60				
Leu	Ser	Val	Val	Asp	Ile	Cys	Tyr	Thr	Ser	Ser	Gly	Val	Pro	Gln	Met
65					70					75					80
Leu	Ala	His	Phe	Leu	Met	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Ala	Leu	Cys
				85					90					95	
Gly	Thr	Gln	Leu	Phe	Phe	Ala	Leu	Thr	Leu	Gly	Gly	Thr	Glu	Phe	Leu
			100					105					110		
Leu	Leu	Ala	Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Xaa	Xaa	Xaa
		115					120					125			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Thr	Ala	Val	Thr	Met	Cys	Leu	Pro	Thr	Cys
		130				135					140				
Gly	His	Asn	Val	Leu	Asn	His	Val	Ala	Cys	Glu	Thr	Leu	Thr	Leu	Val
145					150					155					160
Arg	Leu	Ala	Cys	Val	Asp	Ile	Thr	Leu	Asn	Gln	Val	Val	Ile	Leu	Ala
				165					170					175	
Ser	Ser	Val	Val	Val	Leu	Met	Ile	Pro	Cys	Ser	Leu	Val	Ser	Leu	Ser
		180						185					190		
Tyr	Ala	His	Ile	Val	Ala	Ala	Ile	Met	Lys	Ile	His	Ser	Thr	Gln	Gly
		195					200					205			
Arg	Arg	Lys	Ala	Phe	Glu	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Ser
		210				215					220				
Met	Ser	Tyr	Gly	Met	Ala	Leu	Phe	Thr	Tyr	Leu	Gln	Pro	Ala	Ser	Thr
225					230					235					240
Ala	Ser	Ala	Glu	Gln	Asp	Lys	Val	Val	Val	Ile	Phe	Tyr	Ala	Leu	Val
				245					250					255	
Thr	Pro	Met	Met	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val
			260					265					270		
Lys	Ala	Ala	Phe	Arg	Arg	Val	Leu	Met	Lys	Asn	Ile	Glu	Ser	Lys	Asn
		275					280					285			

<210> 2322  
 <211> 297  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (105)...(111)  
 <223> Any amino acid

<400> 2322

Met	Gly	Lys	Asp	Asn	Gln	Thr	Trp	Ile	His	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Ser	Asp	Trp	Asn	Thr	Glu	Val	Ser	Leu	Phe	Val	Leu	Phe	Leu
			20					25					30		
Leu	Met	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Phe	Leu	Ile	Ile	Val	Leu
		35					40					45			
Ile	Arg	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr
	50					55					60				
Asn	Leu	Ser	Leu	Val	Asp	Val	Ser	Tyr	Ala	Thr	Ser	Ile	Val	Pro	Gln
65					70					75					80
Leu	Leu	Ala	His	Phe	Leu	Ala	Thr	His	Lys	Thr	Ile	Pro	Phe	Leu	Ser
				85					90					95	
Cys	Ala	Ala	Gln	Leu	Phe	Phe	Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Tyr
			100					105					110		
Ser	Ala	Ile	Met	His	Thr	Gly	Leu	Cys	Ser	Arg	Met	Ala	Ile	Val	Ser
	115						120					125			
Trp	Val	Gly	Gly	Ser	Ile	Asn	Ser	Val	Met	Gln	Thr	Ala	Ile	Thr	Phe
	130					135					140				
Gln	Leu	Pro	Met	Cys	Thr	Asn	Val	Tyr	Ile	Asp	His	Ile	Ser	Cys	Glu
145					150					155					160
Leu	Leu	Ala	Val	Val	Arg	Leu	Ala	Cys	Val	Asp	Thr	Ser	Ala	Asn	Glu
				165					170					175	
Val	Ala	Ile	Met	Val	Ser	Ser	Ile	Ile	Leu	Leu	Met	Thr	Pro	Phe	Cys
		180						185					190		
Leu	Val	Leu	Leu	Ser	Tyr	Ile	Gln	Ile	Ile	Ser	Thr	Ile	Leu	Lys	Ile
	195						200					205			
Gln	Ser	Lys	Glu	Gly	Arg	Lys	Lys	Ala	Phe	His	Thr	Cys	Ala	Ser	His
	210					215					220				
Leu	Thr	Val	Val	Ala	Leu	Cys	Tyr	Gly	Met	Ala	Ile	Phe	Thr	Tyr	Ile
225					230				235						240
Gln	Pro	His	Ser	Ser	Pro	Ser	Val	Leu	Gln	Glu	Lys	Leu	Ile	Ser	Leu
				245					250					255	
Phe	Tyr	Ala	Ile	Leu	Thr	Pro	Met	Leu	Asn	Pro	Met	Ile	Tyr	Ser	Leu
		260						265					270		
Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Trp	Gln	Lys	Leu	Leu	Gly	Gln	Phe
		275					280					285			
Ser	Glu	Phe	Thr	Ser	Lys	Leu	Lys	Thr							
	290					295									

<210> 2323

<211> 145

<212> PRT

<213> Mus musculus

<400> 2323

Met	Val	Met	Ser	Ala	Arg	Asn	Asn	Pro	Asp	Leu	Thr	Pro	Ala	Ser	Phe
1				5					10					15	
Val	Leu	Asn	Gly	Ile	Pro	Gly	Leu	Glu	His	Met	His	Ile	Trp	Ile	Ser
			20					25					30		
Phe	Pro	Phe	Cys	Ser	Met	Tyr	Ala	Val	Ala	Met	Met	Gly	Asn	Cys	Gly
		35					40					45			
Leu	Leu	Tyr	Leu	Ile	Phe	Phe	Glu	Asp	Ser	Leu	His	Arg	Pro	Met	Tyr
	50					55					60				
Tyr	Phe	Leu	Ala	Met	Leu	Ser	Leu	Thr	Asp	Leu	Val	Met	Cys	Ser	Ser

65					70					75				80
Thr	Ile	Pro	Lys	Ala	Leu	Cys	Ile	Phe	Trp	Phe	His	Leu	Lys	Glu Ile
				85					90					95
Gly	Phe	Asp	Asp	Cys	Leu	Val	Gln	Met	Phe	Phe	Ile	His	Thr	Phe Met
			100					105					110	
Gly	Met	Glu	Ser	Gly	Val	Leu	Met	Leu	Met	Ala	Leu	Asp	His	Tyr Val
		115					120					125		
Ala	Ile	Cys	Tyr	Pro	Leu	His	Tyr	Ser	Thr	Ile	Leu	Thr	Asn	Pro Ile
	130					135					140			
Ile														
145														

<210> 2324  
 <211> 215  
 <212> PRT  
 <213> Mus musculus

<400> 2324														
Leu	Lys	Lys	Asn	His	Ile	Arg	Val	Thr	Lys	Pro	Ile	Leu	Leu	Gly Phe
1				5					10					15
Thr	Asn	Asn	Ser	Glu	Ile	Gln	Ile	Ser	Leu	Phe	Val	Phe	Phe	Leu Ala
			20					25					30	
Ile	Tyr	Leu	Val	Ala	Leu	Leu	Gly	Asn	Phe	Leu	Ala	Phe	Thr	Ile Asn
		35					40					45		
Arg	Val	Asp	Pro	Thr	Leu	Gln	Thr	His	Lys	Tyr	Phe	Tyr	Leu	Gln Asn
	50					55					60			
Leu	Ser	Gln	Leu	Glu	Val	Cys	Phe	Thr	Leu	Val	Met	Ile	Pro	Lys Met
65					70				75					80
Leu	Val	Asp	Leu	Arg	Lys	Val	Ile	Ser	Phe	Trp	Gly	Cys	Gly	Ile Arg
			85					90					95	
Val	Cys	Ser	Phe	Phe	Phe	Pro	Pro	Ser	Ile	Ser	Ser	Ser	Ser	Ser Ala
			100					105					110	
Leu	Met	Met	Ala	Leu	Pro	Phe	Ser	Val	Cys	Val	Cys	Met	Cys	Val Cys
	115						120					125		
Val	Asp	Leu	Val	Thr	Asp	Ala	Ser	Ala	Cys	Ile	Leu	Phe	Ser	Ser Ser
	130					135					140			
Cys	Phe	Thr	Phe	Ile	Ile	Val	Ser	Tyr	Val	His	Ile	Ala	Gly	Thr Thr
145					150					155				160
Leu	Arg	Met	Ser	Phe	Ala	Thr	Asp	Gly	Gln	Lys	Ala	Phe	Phe	Ile Cys
			165					170						175
Leu	Leu	Tyr	Leu	Thr	Val	Ile	Tyr	Tyr	Phe	Tyr	Val	Thr	Ala	Asn Leu
		180					185						190	
Thr	Tyr	Arg	Thr	Ser	Ser	Asn	Ser	Ser	Glu	Ser	Ser	Ser	Leu	Ser Tyr
	195					200						205		
Thr	Val	Phe	Met	Ser	Met	Leu								
	210					215								

<210> 2325  
 <211> 216  
 <212> PRT  
 <213> Mus musculus

<400> 2325														
Ile	Lys	Ala	Lys	Ile	Glu	Glu	Glu	Asn	Thr	Thr	Glu	Ile	Thr	Gln Phe
1				5					10					15

Ile	Cys	Leu	Gly	Phe	Ser	Asp	Ser	Pro	Glu	Ile	Thr	Glu	Leu	Leu	Phe
			20					25					30		
Val	Leu	Ile	His	Thr	Trp	Asn	Met	Ser	Phe	Ile	Val	Leu	Ile	Arg	Met
		35					40					45			
Asp	Ser	His	Leu	His	Thr	Pro	Ser	Ile	Ser	Phe	Lys	Glu	Ile	Tyr	Tyr
		50					55				60				
Ile	Ser	Ser	Ala	Ile	Glu	Ser	Met	Leu	Ser	Lys	Phe	Phe	Gln	Glu	Lys
65					70					75					80
Gln	Thr	Ile	Ser	Phe	Val	Gly	Tyr	Met	Val	Tyr	Phe	Ile	Phe	Phe	Thr
				85					90					95	
Arg	Val	Leu	Ser	Glu	Ser	Phe	Leu	Val	Thr	Ala	Met	Ala	Tyr	Asp	Lys
			100					105					110		
Tyr	Ala	Ile	Ile	Cys	Asn	Pro	Thr	Ala	Leu	Ser	Pro	Ile	Met	Leu	Pro
		115					120					125			
Thr	Leu	Cys	Ala	Trp	Val	Met	Val	Glu	Ser	Tyr	Val	Thr	Thr	Asn	Ser
		130				135					140				
Ser	Ser	Leu	Pro	Gln	Ile	Cys	Thr	Leu	Leu	Gln	Leu	Tyr	Phe	Cys	Gly
145					150					155					160
Leu	Asn	Ile	Asn	Arg	Arg	Phe	Phe	Cys	Asp	Met	Pro	Gln	Leu	Leu	Asn
			165						170					175	
Leu	Ser	Tyr	Thr	Asp	Lys	Phe	Phe	Val	Gln	Phe	Leu	Leu	Ala	Ile	Phe
			180					185					190		
Thr	Arg	Leu	Phe	Arg	Ile	Val	Asn	Ala	Leu	Leu	Ile	Ser	Ile	Ala	Tyr
		195					200					205			
Asp	Tyr	Val	Ala	Ile	Ser	Val	Val								
		210					215								

<210> 2326  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2326

Met	Glu	Gly	Met	Ala	Ala	Arg	Asn	His	Cys	Val	Val	Thr	Glu	Phe	Phe
1				5					10					15	
Leu	Ala	Gly	Leu	Ser	Asn	Lys	Gln	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu
			20					25					30		
Leu	Phe	Ile	Arg	Phe	Tyr	Val	Val	Thr	Val	Thr	Gly	Asn	Leu	Ser	Ile
		35					40					45			
Ile	Thr	Leu	Ile	Gly	Leu	Asn	Ser	His	Leu	Pro	Thr	Pro	Met	Tyr	Tyr
		50				55					60				
Phe	Leu	Ser	Ser	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Gln	Ser	Thr	Val	Val
65					70					75					80
Thr	Pro	Lys	Met	Pro	Val	Asn	Phe	Met	Val	Glu	Lys	Asn	Ile	Ile	Ile
			85						90					95	
Ser	Tyr	Leu	Gly	Cys	Met	Thr	Gln	Leu	Tyr	Cys	Phe	Leu	Ile	Phe	Gly
			100				105						110		
Ile	Ala	Glu	Gly	Tyr	Thr	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Pro	Phe	Val
		115					120					125			
Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Asn	Ala	Thr	Met	Ser	Ser	Gln	Ile
		130				135					140				
Tyr	Thr	Ser	Leu	Ile	Phe	Ser	Val	Tyr	Ile	Phe	Ala	Val	Phe	Cys	Ile
145					150					155					160
Ser	Thr	His	Val	Gly	Phe	Met	Phe	Arg	Ile	Lys	Phe	Cys	Lys	Leu	Asp
			165						170					175	
Val	Ile	Asn	His	Tyr	Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Lys	Arg	Ala





Phe Ile Tyr Phe Lys Ser Ser Lys Ile Leu Ile Phe Tyr Tyr Phe Ile  
 260 265 270  
 Asn Ile Leu Phe Tyr  
 275

<210> 2328  
 <211> 183  
 <212> PRT  
 <213> Mus musculus

<400> 2328  
 Pro Leu Leu Tyr Ser Ser Ile Met Ser Gln His Lys Cys Leu Ser Leu  
 1 5 10 15  
 Val Leu Val Val Tyr Ile Ile Gly Ile Ile Cys Ala Ser Ala His Val  
 20 25 30  
 Gly Cys Ile Phe Arg Val Asp Phe Cys Arg Phe Asp Val Ile Asn His  
 35 40 45  
 Cys Phe Cys Asp Leu Ile Ser Ile Leu Lys Leu Ser Cys Ser Asn Ile  
 50 55 60  
 Phe Val Asn Glu Leu Leu Ile Leu Ile Phe Ser Leu Ile Asn Thr Ile  
 65 70 75 80  
 Phe Pro Thr Leu Thr Ile Leu Ile Ser Tyr Thr Phe Ile Ile Ile Ser  
 85 90 95  
 Ile Leu Arg Ile Lys Ser Thr Glu Gly Arg Ser Lys Ala Phe Ser Thr  
 100 105 110  
 Cys Ser Ser Leu Ile Ser Ala Val Ala Val Phe Phe Gly Ser Ala Ala  
 115 120 125  
 Phe Met Tyr Leu Lys Pro Ser Ser Ser Ser Ile Asn Glu Gly Lys  
 130 135 140  
 Ile Cys Ser Ile Phe Tyr Thr Ile Phe Val Pro Met Leu Asn Pro Leu  
 145 150 155 160  
 Ile Tyr Ser Leu Arg Asn Lys Asp Val Asn Ile Ala Val Lys Lys Ile  
 165 170 175  
 Ile Glu Arg Arg Ser Phe Phe  
 180

<210> 2329  
 <211> 307  
 <212> PRT  
 <213> Mus musculus

<400> 2329  
 Phe Ile Lys Gln Arg Lys Ile Glu Val Gly Asn Cys Ser Thr Thr Glu  
 1 5 10 15  
 Phe Leu Leu Leu Gly Ile Thr Asn Lys Pro Lys Ile Lys Val Ile Leu  
 20 25 30  
 Phe Asn Ser Phe Leu Val Tyr Leu Ile Ile Leu Phe Glu Asn Leu Gly  
 35 40 45  
 Met Ile Ile Leu Ile Arg Met Asn Thr Lys Leu His Thr Leu Met Tyr  
 50 55 60  
 Tyr Phe Leu Ser Gln Leu Ser Phe Ser Asp Ile Ser Tyr Ser Thr Ala  
 65 70 75 80  
 Phe Gly Pro Lys Met Met Asn Ser Leu Gln Leu Pro Cys Ile Cys Ser  
 85 90 95  
 Val Phe Phe Ile Ser Asn Ile Phe Thr Asp Ala Glu Cys Ile Met Leu



Ala	Ile	Cys	Lys	Pro	Leu	Leu	Tyr	Pro	Ile	Ile	Met	Thr	Asn	Ser	Gln
			180					185					190		
Cys	Phe	His	Leu	Glu	Ile	Phe	Ser	Pro	Glu	Gly	Gly	Phe	Leu	His	Val
		195					200					205			
Leu	Thr	Tyr	Glu	Ile	Phe	Leu	Phe	Arg	Ile	Thr	Phe	Cys	Asn	Ser	Asn
	210					215					220				
Val	Ile	Tyr	His	Phe	Tyr	Cys	Asp	Val	Ile	Phe	Phe	Phe	Phe	Phe	Lys
225					230					235					240
Ile	Ser	Cys	Ser	Asp	Ser	Ser	Ile	Ser	Phe	Leu	Leu	Met	Phe	Gly	Leu
			245						250					255	
Ala	Asp	Thr	Gly	Trp	Arg	Ser	Thr	Ile	Val	Ser	Val	Leu	Gly	Phe	Tyr
			260					265					270		
Ile	Ile	Leu	Phe	Thr	Leu	Leu	Leu	Ser	Lys	Cys	Phe	Lys	Gly	Ile	Lys
		275					280					285			
Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ala	His	Val	Leu	Cys	Ala	Ser	Leu	Tyr
	290					295					300				
Tyr	Gly	Pro	Leu	Phe	Met	Tyr	Val	Arg	Leu	Ala	Ser	Arg	Tyr	Ala	Asp
305					310					315					320
Ala	Glu	Ile	Asp	Ser	Leu	Phe	Tyr	Thr	Val	Ile	Val	Thr	Met	Leu	Asn
			325						330					335	
Ile	Ile	Ile	Tyr	Ser	Ile	Lys	Lys	Gln	Ile	Ile	Asp	Ser			
			340					345							

<210> 2331  
 <211> 298  
 <212> PRT  
 <213> Mus musculus

<400> 2331

Met	Glu	His	Ser	Asn	Asp	Ser	Lys	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5				10						15	
Phe	Ala	Gly	Gln	Asn	Glu	Ser	Trp	His	Ile	Leu	Phe	Ala	Val	Phe	Leu
		20					25						30		
Val	Ile	Tyr	Val	Ala	Thr	Leu	Val	Gly	Asn	Ile	Gly	Met	Ile	Leu	Leu
	35					40					45				
Ile	Lys	Leu	His	Ser	Ser	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln
	50					55				60					
His	Leu	Ala	Phe	Val	Asp	Leu	Cys	Tyr	Ser	Tyr	Ala	Ile	Thr	Pro	Ser
65				70				75						80	
Asp	Thr	Gly	Ala	Leu	Gln	Asn	Phe	Met	Ser	Thr	Arg	Pro	Ser	Phe	Pro
			85					90					95		
Phe	Thr	Gly	Trp	Thr	Met	Gln	Leu	Tyr	Ile	Tyr	Gly	Ile	Phe	Ile	Asn
		100					105					110			
Ser	Asp	Phe	Ile	Leu	Ala	Ala	Arg	Ala	Val	Asp	Ser	Tyr	Val	Ala	Ile
	115					120					125				
Cys	Asn	Pro	Leu	His	Cys	Pro	Ile	Ile	Met	Ser	Gln	Arg	Trp	His	Ser
	130					135					140				
Gly	Ala	Ser	Val	Asn	Thr	Gly	Phe	Thr	Phe	Tyr	Asn	Phe	Cys	Arg	Ser
145				150				155						160	
Asn	Ala	Ile	Asn	His	Phe	Phe	Cys	Asn	Val	Pro	Pro	Ile	Leu	Thr	Pro
			165					170						175	
Ser	Cys	Ser	Ser	Thr	Asp	Phe	Asn	Ile	Val	Leu	Leu	Thr	Val	Phe	Val
		180						185					190		
Gly	Phe	Asn	Phe	Ile	Phe	Ser	Val	Ser	Val	Val	Ile	Leu	Ser	Tyr	Thr
	195					200						205			
His	Ile	Leu	Ala	Ala	Ile	Leu	Arg	Met	Phe	Ser	Ala	Ala	Gly	Arg	Ile

210		215		220											
Lys	Ala	Phe	Ser	Thr	Cys	Val	Thr	His	Val	Thr	Thr	Ile	Thr	Ile	Leu
225					230					235					240
Phe	Arg	Thr	Val	Cys	Tyr	Met	Tyr	Val	Leu	His	Gly	Ile	Asn	Arg	Ser
				245					250					255	
Gln	Glu	Gln	Lys	Lys	Val	Thr	Tyr	Val	Ser	Tyr	Phe	Ile	Ile	Ile	Pro
			260					265					270		
Met	Leu	Asn	Leu	Leu	Val	Cys	Ser	Val	Arg	Asn	Gln	Asp	Met	Ile	Glu
		275					280					285			
Val	Leu	Arg	His	Ile	Glu	Asn	Lys	Cys	Leu						
290					295										

<210> 2332  
 <211> 194  
 <212> PRT  
 <213> Mus musculus

<400> 2332

Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Gln	Pro	Leu	Trp	Arg	Tyr	Pro	Val
1				5					10					15	
Leu	Met	Ser	Ala	Lys	Leu	Ser	Thr	Leu	Val	Ala	Gly	Ala	Trp	Val	
			20					25				30			
Ala	Gly	Leu	Ile	His	Gly	Ala	Ile	Gln	Ala	Ile	Leu	Thr	Phe	Arg	Leu
		35				40					45				
Pro	Tyr	Cys	Gly	Pro	Asn	Gln	Val	Asp	Tyr	Phe	Phe	Cys	Asp	Ile	Pro
	50				55					60					
Ala	Val	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr	Thr	Val	Asn	Glu	Leu	Phe
65				70					75					80	
Thr	Phe	Val	Asp	Ile	Gly	Val	Val	Val	Ala	Ser	Cys	Phe	Ser	Leu	Ile
			85				90					95			
Leu	Leu	Ser	Tyr	Ile	Tyr	Ile	Ile	Arg	Ala	Ile	Leu	Arg	Ile	Arg	Thr
		100					105					110			
Ala	Asp	Gly	Arg	Arg	Arg	Ala	Phe	Ser	Thr	Cys	Gly	Ala	His	Val	Thr
	115					120					125				
Met	Val	Thr	Val	Tyr	Tyr	Val	Pro	Cys	Ala	Phe	Thr	Tyr	Leu	Arg	Pro
	130					135					140				
Asp	Ser	His	Gly	Ile	Leu	Asp	Gly	Ala	Ala	Ala	Leu	Phe	Pro	Thr	Ala
145				150						155				160	
Ile	Thr	Pro	Phe	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Glu
			165					170					175		
Val	Lys	Leu	Ala	Leu	Arg	Arg	Met	Val	Gly	Ser	Gln	Ser	Thr	Lys	Ser
			180				185						190		

Gly Gly

<210> 2333  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2333

Val	Asn	Ile	Ser	Leu	Val	Thr	Glu	Phe	Ile	Val	Val	Gly	Ala	Glu	Gln
1				5					10					15	
Pro	Asp	Leu	Gln	Ile	Pro	Met	Phe	Phe	Gly	Phe	Leu	Ala	Met	Tyr	Pro
			20					25					30		

Val	Thr	Ala	Leu	Glu	Asn	Leu	Phe	Leu	Ile	Ile	Leu	Thr	Val	Leu	Asn
		35					40					45			
Ser	His	Val	His	Thr	Thr	Met	Tyr	Phe	Phe	Leu	Phe	Asn	Leu	Ser	Phe
	50					55					60				
Val	Val	Leu	Cys	Tyr	Ser	Ser	Val	Phe	Thr	Pro	Gln	Met	Leu	Met	Asn
65					70				75						80
Phe	Ile	Ile	Arg	Lys	Asn	Thr	Ile	Ser	Tyr	Met	Glu	Cys	Ile	Thr	Leu
				85					90					95	
Phe	Phe	Leu	Ser	Phe	Phe	Leu	Ser	Phe	Phe	Leu	Ser	Phe	Phe	Leu	Ser
			100					105					110		
Phe	Phe	Leu	Ser	Phe	Phe	Leu	Ser	Phe	Phe	Leu	Glu	Cys	Cys	Val	Leu
		115					120					125			
Thr	Ser	Met	Ala	Tyr	Asp	Ser	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Asn	Leu
	130					135					140				
Phe	Met	Ser	Pro	Lys	Cys	Leu	Asn	Leu	Ile	Leu	Gly	Ser	Phe	Phe	Ile
145					150					155					160
Ser	Phe	Ser	Asp	Ala	Val	Ala	His	Ser	Thr	Cys	Arg	Leu	Lys	Leu	Thr
			165						170					175	
Phe	Cys	Asp	Cys	Asp	Ile	Pro	Pro	Leu	Gln	Leu	Cys	Cys	Thr	Ser	
		180						185					190		
Thr	Tyr	Val	Asn	Glu	Leu	Val	Ile	Phe	Val	Phe	Leu	Val	Gly	Cys	Ile
	195						200					205			
Asn	Ile	Ile	Val	Pro	Ser	Ser	Thr	Ile	Leu	Ile	Ser	Tyr	Asp	Phe	Ile
	210					215					220				
Leu	Ser	Ser	Met	Phe	Cys	Ile	Lys	Ser	Ser	Glu	Gly	Arg	Ser	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Tyr	Ser	Ser	His	Val	Ile	Ser	Leu	Ser	Leu	Phe	Phe	Asp
			245					250						255	
Ser	Ser	Ala	Phe	Val	Tyr	Phe	Lys	Ser	Ser	Ser	Ala	Gly	Ser	Leu	Gly
		260					265					270			
Glu	Glu	Asn	Ile	Ser	Ser	Val	Phe	Tyr	Ser	Asn	Val	Val	Leu	Ile	Val
	275						280					285			
Asn	Pro	Leu	Leu	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ser	Leu	Arg	Lys	Thr
	290					295					300				
Leu	Thr	Arg	Lys	Asn	Phe										
305					310										

<210> 2334  
 <211> 320  
 <212> PRT  
 <213> Mus musculus

<400> 2334

Ser	Glu	Pro	Asn	Trp	Thr	Val	Pro	Gln	Glu	Phe	Val	Ile	Leu	Gly	Phe
1				5					10					15	
Ser	Gly	Trp	Pro	Gln	Gly	Leu	Arg	Val	Leu	Leu	Phe	Ser	Leu	Leu	Leu
		20						25					30		
Pro	Leu	Tyr	Leu	Ala	Thr	Leu	Ala	Gly	Asn	Leu	Leu	Ile	Leu	Gly	Leu
	35						40						45		
Ala	Leu	Ala	Glu	Pro	Thr	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly
	50					55					60				
Ser	Leu	Ser	Ala	Val	Glu	Val	Ala	Tyr	Thr	Leu	Val	Leu	Thr	Pro	Arg
65					70					75					80
Met	Leu	Ala	Gly	Phe	Leu	Leu	Pro	Pro	Gly	Gly	Gln	Ala	Val	Ala	Pro
			85						90					95	
Ser	Thr	Cys	Ala	Ala	Gln	Met	Gly	Leu	Phe	Val	Ala	Leu	Gly	Gly	Ser



Ile	Ser	Ser	Cys	Thr	Gln	Ile	Thr	Val	Val	Thr	Leu	His	Phe	Val	Thr
			180					185					190		
Cys	Ile	Tyr	Val	Phe	Thr	Ala	Leu	Pro	Met	Asp	Arg	Ala	Val	Ser	Ile
		195					200					205			
Thr	Phe	Thr	Val	Ile	Ile	Pro	Val	Leu	Asn	Pro	Met	Ile	Cys	Thr	Leu
	210					215					220				
Met	Ser	Ser	Gly	Phe	Leu	Ser	Leu	His	Lys						
225					230										

<210> 2336  
 <211> 146  
 <212> PRT  
 <213> Mus musculus

<400> 2336

Tyr	Glu	Lys	Lys	Tyr	Thr	Glu	Met	Thr	Gln	Phe	Ile	Leu	Leu	Gly	Phe
1			5						10					15	
Ser	Asp	Phe	His	Gln	Ile	Thr	Ala	Leu	Gln	Phe	Ile	Ile	Phe	Leu	Thr
		20					25					30			
Asn	Leu	Cys	Leu	Ile	Val	Leu	Ile	Arg	Met	Asn	Ser	His	Leu	His	Thr
	35					40					45				
Ser	Met	Val	Phe	Leu	Cys	Asp	Leu	Ser	Leu	Ile	Gly	Leu	Tyr	Tyr	Ile
	50				55					60					
Asn	Ser	Met	Asp	Pro	Lys	Ile	Leu	Thr	Pro	Ile	Tyr	Ser	Ser	Arg	Ser
65				70					75					80	
Lys	Gly	Ser	Arg	Ala	Thr	Phe	Trp	Pro	Pro	Gln	Ala	Cys	Thr	Trp	Cys
			85					90						95	
Ile	Cys	Ile	His	Thr	Gly	Lys	Asn	Ser	Tyr	Thr	Asn	Lys	Phe	Phe	Lys
			100				105					110			
Ser	Cys	Arg	Lys	Glu	Ser	His	Phe	Leu	Ala	Met	Thr	Gln	Glu	Thr	Lys
	115					120					125				
Leu	Phe	Met	Leu	Leu	Val	Tyr	Ile	Pro	Gly	Val	Lys	Phe	Tyr	Leu	Ser
	130					135					140				
Ser	Ile														
145															

<210> 2337  
 <211> 245  
 <212> PRT  
 <213> Mus musculus

<400> 2337

Gly	His	Arg	Lys	Phe	Ser	Leu	Asn	Glu	Phe	Ile	Phe	Ala	Gly	Phe	Ala
1			5						10					15	
Asn	Asn	Pro	Glu	Met	Lys	Gly	Ile	Phe	Val	Met	Phe	Leu	Val	Ile	Tyr
		20					25					30			
Leu	Ile	Asn	Leu	Leu	Gln	Thr	Val	Gly	Met	Ile	Ile	Leu	Met	Arg	Met
	35					40					45				
Asp	Pro	Gln	Leu	His	Thr	Ser	Lys	Tyr	Phe	Tyr	Leu	Ser	His	Leu	Ser
	50				55					60					
Phe	Ser	Asp	Phe	Tyr	Tyr	Phe	Ile	Ala	Ile	Val	Leu	Lys	Val	Ser	Val
65				70					75					80	
Gly	Ile	Phe	Gly	Asn	Lys	Ile	Cys	Leu	Arg	Gly	Cys	Ala	Leu	Phe	Phe
			85					90					95		
Thr	Ser	Cys	Thr	Phe	Ala	Asp	Glu	Tyr	Ile	Val	Leu	Ala	Ala	Met	Ser





<210> 2339  
 <211> 100  
 <212> PRT  
 <213> Mus musculus

<400> 2339  
 Pro Ser Ala Glu Leu Thr Ser Arg Gly Arg Gln Ser Thr Trp Ser Glu  
 1 5 10 15  
 Glu Pro Pro Ser Ala His Ala Gln Ile Ile Cys Leu Pro Leu Arg Thr  
 20 25 30  
 Gln Leu Ser Ala Pro Ser Cys Asn Gly Glu Cys Gly Arg Gly Ser Gln  
 35 40 45  
 His Asn Thr Ser Val Ala Pro Leu Leu Asn Pro Phe Ile Tyr Thr Leu  
 50 55 60  
 Arg Asn Lys Gln Val Lys Glu Ala Phe Lys His Val Leu His Arg Phe  
 65 70 75 80  
 Cys Phe Leu Gln Asn Asn Glu Thr Met Phe Arg His Ala Val Glu Thr  
 85 90 95  
 Ser Gly Val Lys  
 100

<210> 2340  
 <211> 273  
 <212> PRT  
 <213> Mus musculus

<400> 2340  
 Pro Thr Met Leu Phe Ser Tyr Ile Cys Thr Tyr Ser Ala Gly Glu Glu  
 1 5 10 15  
 Arg Leu Phe Thr Pro Leu Glu Leu Ile Gly His Met Val Ser Ser Phe  
 20 25 30  
 Leu Val Leu Ser Cys Tyr Gln Asn Val Ile Thr Leu Leu Met Met Met  
 35 40 45  
 Ser Phe Val Gln Asp Asn Asp Val Thr Pro Ser Leu Asn Met Thr Leu  
 50 55 60  
 Leu Ser Ser Phe Leu Ile Phe Val Thr Tyr Val Asn Trp Trp His Ala  
 65 70 75 80  
 Thr Met Ala Tyr Asp His Tyr Ala Val Thr Ser Asn Cys Leu Val Asn  
 85 90 95  
 Asn Val Ile Met Ser Gln Val Cys Phe Trp Met Val Ser Glu Met His  
 100 105 110  
 Ala Met Gly Phe Thr Glu Asp Thr Ile Gln Thr Leu Cys Ile Leu Arg  
 115 120 125  
 Val Leu Leu Cys Lys Gly Lys Val Met Asn Asn Cys Phe Cys Asp Leu  
 130 135 140  
 Leu Pro Leu Leu Pro Leu Ala Tyr Ser Ser Thr Phe Val Asn Lys Ile  
 145 150 155 160  
 Val Leu Leu Tyr Asn Ser Ala Phe Asn Met Phe Gln Pro Arg Leu Thr  
 165 170 175  
 Ile Ala Pro Tyr Thr Phe Asn Ile Thr Cys Ile Leu Cys Ile Lys Ser  
 180 185 190  
 Thr Asn Gly Arg Val Asn Ala Phe Ser Ser Tyr Asn Ser His Phe Phe  
 195 200 205  
 Ala Val Val Val Phe Leu Gly Ser Leu Ala Phe Ile Tyr Phe Gln Pro  
 210 215 220  
 Phe Ile Cys Ser Lys Lys Lys Asn Lys Ala Ser Ser Leu Phe Tyr Thr

225					230					235				240
Thr	Ile	Val	Ser	Met	Leu	Asn	Ser	Leu	Ile	Tyr	Gly	Leu	Arg	Asn
				245					250					255
Tyr	Val	Lys	Phe	Thr	Leu	Arg	Lys	Val	Val	Lys	Lys	Gln	Asn	Leu
			260					265					270	
Val														

<210> 2341  
 <211> 231  
 <212> PRT  
 <213> Mus musculus

<400> 2341

Val	Val	Leu	Leu	Ile	Leu	Val	Lys	Asn	Ile	Ile	Ser	Lys	Ser	Phe	Ile
1				5					10					15	
Ile	Thr	Ile	Ser	Ser	Gln	Leu	His	Ser	Pro	Val	Tyr	Ser	Leu	Ser	His
			20					25					30		
Leu	Ser	Phe	Ile	Asn	Phe	Cys	Tyr	Ser	Ser	Val	Ile	Ile	Pro	Lys	Met
		35				40						45			
Leu	Val	Asn	Phe	Val	Cys	Glu	Lys	Asp	Met	Ile	Phe	Leu	Glu	Cys	Met
	50					55				60					
Ile	Gln	Leu	Tyr	Phe	Ile	Ile	Phe	Val	Ile	Ala	Gly	Gly	Ser	Leu	Leu
65					70				75					80	
Thr	Ala	Thr	Thr	Tyr	Asp	Cys	Gln	Gly	Pro	Ala	Ser	Ala	Gln	Asp	Gln
			85						90					95	
Ser	Ser	Lys	Leu	Glu	Ala	Gly	Ile	Pro	Gly	Arg	Arg	Ile	Thr	Asn	Thr
		100						105					110		
His	Arg	His	Leu	Phe	Gln	Glu	Gln	Ser	Leu	Arg	Gln	Val	Ser	Arg	Leu
		115				120						125			
Glu	Val	Ala	Leu	His	Leu	Phe	Cys	Val	Ser	Leu	Ser	Leu	Ser	Leu	Ser
	130					135					140				
Leu	Ser	Ser	Val	Ser	Val	Ser	Val	Cys	Thr	Tyr	Ser	Ser	Leu	Ser	Cys
145					150					155					160
Thr	Leu	Cys	Phe	Ser	Leu	Leu	His	Phe	Ala	Phe	Leu	Lys	Leu	Pro	Met
			165						170					175	
Phe	Leu	His	Thr	Ser	Val	Tyr	Ser	Pro	Phe	Thr	His	Thr	Tyr	Thr	Ile
		180						185					190		
Tyr	Thr	His	Leu	Thr	His	Ile	Pro	Leu	Met	Cys	Ser	Phe	Thr	His	Ile
		195				200						205			
Asp	Thr	Pro	Leu	Thr	Leu	Thr	Leu	Phe	Leu	Tyr	Ser	Phe	Ser	His	Thr
	210					215					220				
Pro	Tyr	Ser	Ser	Leu	Pro	Phe									
225					230										

<210> 2342  
 <211> 217  
 <212> PRT  
 <213> Mus musculus

<400> 2342

Leu	Phe	Phe	Lys	Phe	Tyr	Tyr	Ser	Ser	Phe	Phe	Ile	Thr	His	Arg	Lys
1				5					10					15	
Asn	Asn	Thr	Asp	Leu	Ser	Ser	Phe	Pro	Ile	Thr	Ser	Met	Met	Tyr	Val
			20					25					30		



	195		200		205
Phe	Ser Gly Val Ile Ile Thr Val Ser Tyr Ile Ser Ile Leu Met Ala				
210		215		220	
Ile Leu Lys Ile Gln Thr Thr Asn Arg Arg Met Lys Asp Phe Ser Thr					
225		230		235	240
Tyr Ser Ser His Leu Ala Gly Val Ser Ile Gln Tyr Gly Thr Val Leu					
	245		250		255
Phe Ile Tyr Val Arg Pro Ser Thr Leu Asn Thr Asn Lys Val Ile Ser					
	260		265		270
Leu Phe Tyr Thr Val Met Ile Ser Met Leu Asn Pro Leu Ile Tyr Ser					
	275		280		285
Leu Arg Asn Lys Glu Val Lys Asn Ala Leu Arg Arg Lys Val Gln Arg					
	290		295		300
Lys His Phe Ser Arg Asp Trp					
305		310			

<210> 2344  
 <211> 248  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (243)...(248)  
 <223> Any amino acid

<400> 2344

Met	Lys	Ala	Phe	Ser	Ser	Pro	Ser	Asn	Ser	Ser	Thr	Ile	Thr	Gly	Phe
1				5				10						15	
Ile	Leu	Leu	Gly	Phe	Pro	Cys	His	Arg	Glu	Gly	Gln	Ile	Leu	Leu	Phe
			20					25					30		
Val	Leu	Phe	Ser	Ile	Val	Tyr	Leu	Leu	Thr	Leu	Met	Gly	Asn	Ala	Ser
		35				40						45			
Ile	Ile	Cys	Ala	Val	Cys	Tyr	Asp	Leu	Ala	Ser	Phe	Ser	Phe	Phe	Leu
	50				55						60				
Ser	Gln	Thr	Val	Leu	Gly	Asn	Ile	Ser	Asn	Asn	Asp	Tyr	Gly	Gln	Leu
65				70					75					80	
Tyr	Phe	His	Thr	Ile	Ser	Phe	Cys	Phe	Leu	Phe	Ser	Phe	Ile	Phe	Ser
		85						90					95		
Val	Asn	Phe	Leu	Phe	Ile	Tyr	Leu	Phe	Ile	Tyr	Leu	Ile	Tyr	Ile	Ser
		100						105					110		
Asn	Val	Ile	Thr	Phe	Pro	Thr	Phe	Pro	Ser	Asn	Pro	Leu	Cys	Pro	Leu
	115						120					125			
Pro	Ser	Leu	Leu	Phe	Thr	Asn	Pro	Pro	Ile	Pro	Ala	Ser	Trp	Pro	Trp
	130					135					140				
His	Ser	Ser	Ile	Leu	Gly	His	Arg	Thr	Phe	Thr	Gly	Pro	Gly	Pro	Leu
145				150						155				160	
Leu	Pro	Leu	Met	Thr	Thr	Arg	Pro	Ser	Ser	Ala	Thr	Tyr	Ala	Ser	Arg
			165					170					175		
Ala	Met	Cys	Phe	Leu	Leu	Val	Val	Ser	Gln	Gly	Ser	Leu	Gly	Gly	Tyr
		180					185					190			
Trp	Leu	Val	His	Ile	Ile	Val	Pro	Pro	Met	Gly	Met	Arg	Asn	Pro	Phe
	195					200						205			
Ser	Pro	Cys	Gly	Ser	Leu	Leu	Leu	His	Trp	Gly	Tyr	Val	Phe	Leu	
	210				215					220					
Asn	Ser	Ile	Thr	Pro	Thr	Ile	Tyr	Ala	Thr	Ala	Ile	Phe	Ser	Leu	Val

225		230		235		240
Phe	Leu	Xaa	Xaa	Xaa	Xaa	Xaa
		245				

<210> 2345  
 <211> 229  
 <212> PRT  
 <213> Mus musculus

<400> 2345

Glu	Cys	Trp	Trp	Val	Leu	Ser	Arg	Thr	Ser	Phe	Ser	His	Ala	Glu	Cys
1				5					10					15	
Leu	Thr	Gln	Leu	Phe	Phe	Phe	Ala	Phe	Phe	Val	Ile	Asp	Glu	Cys	Tyr
		20						25					30		
Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys	Pro
	35					40						45			
Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Gln	Val	Cys	Leu	Leu	Met	Thr
	50					55					60				
Met	Gly	Val	Tyr	Val	Met	Gly	Phe	Ala	Gly	Ala	Leu	Ser	His	Ile	Val
65				70					75						80
Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Gly	Asn	Ile	Ile	Asn	His	Tyr
			85						90					95	
Val	Cys	Asp	Val	Leu	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr	Ser	Thr	Ser
		100						105					110		
Ile	Asn	Glu	Met	Val	Val	Phe	Ile	Val	Val	Gly	Val	Asn	Val	Ile	Val
	115						120					125			
Pro	Ser	Leu	Thr	Leu	Phe	Val	Ser	Tyr	Thr	Leu	Ile	Leu	Ser	Asn	Ile
	130					135					140				
Leu	Ser	Ile	His	Ser	Ala	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys
145					150					155					160
Gly	Ser	His	Val	Met	Ala	Val	Ser	Phe	Phe	Phe	Gly	Ala	Ala	Ala	Phe
			165					170					175		
Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Ser	Val	Asp	Glu	Glu	Lys	Leu	Ser
		180						185					190		
Thr	Ile	Phe	Tyr	Thr	Ile	Leu	Gly	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
	195					200						205			
Ser	Ile	Arg	Asn	Lys	Asp	Val	His	Leu	Ala	Leu	Arg	Lys	Thr	Leu	Met
	210					215					220				
Lys	Leu	Arg	Phe	Ser											
225															

<210> 2346  
 <211> 268  
 <212> PRT  
 <213> Mus musculus

<400> 2346

Gly	His	Thr	Ser	Cys	Gln	Ser	Leu	Gly	Gln	Ala	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Gln	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Phe	Gln	Phe	Leu
		20						25					30		
Gly	Ile	Tyr	Val	Val	Ser	Ile	Val	Gly	Asn	Leu	Gly	Leu	Ile	Val	Leu
	35					40						45			
Ile	Val	Leu	Asn	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Phe
	50					55					60				

Asn	Leu	Ser	Phe	Thr	Asp	Leu	Cys	Tyr	Ser	Ser	Ala	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Val	Gly	Phe	Val	Asn	Gln	Asn	Ile	Ile	Ala	His	Ala	Glu	Cys
				85					90					95	
Leu	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val	Leu	Asp	Glu	Cys	Tyr
			100					105					110		
Ile	Cys	Thr	Glu	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys	Thr
		115					120					125			
Leu	Leu	Asn	Gln	Val	Thr	Met	Ser	His	Gln	Val	Cys	Leu	Gly	Asn	His
	130					135					140				
Lys	Arg	Leu	Asp	Tyr	Ile	Ile	Phe	Arg	Asn	Gly	Lys	Ile	Lys	Lys	Ile
145					150					155					160
Phe	Leu	Asn	Val	His	Ile	Tyr	Phe	Ile	Ile	Phe	Phe	Val	Cys	Gly	Thr
				165					170					175	
Ser	Tyr	Pro	Ser	Leu	Ser	Cys	Ala	Ser	Val	Pro	Leu	Thr	Tyr	Ile	Leu
		180						185					190		
Arg	Val	Gly	Thr	Phe	Val	Ser	Phe	Val	Trp	Leu	Ser	Gln	Thr	Met	Ser
		195					200					205			
Tyr	Tyr	Phe	Ile	Ile	Ala	Asn	Leu	Trp	Asp	Asn	Leu	Glu	Ser	Ser	Phe
	210					215					220				
Arg	Leu	Ile	Cys	Cys	Ser	Lys	Gly	Ser	Lys	Glu	Gly	Lys	Lys	Leu	Leu
225					230					235					240
Ser	Phe	Trp	Ser	Phe	Phe	Ile	Val	Leu	Lys	Gln	Phe	Arg	Lys	Glu	Gly
				245					250					255	
Leu	Thr	Ser	Tyr	Gln	Pro	Ser	Asn	Ile	His	Asp	Ser				
			260					265							

<210> 2347  
 <211> 213  
 <212> PRT  
 <213> Mus musculus

<400> 2347

Glu	Ser	Gly	Pro	Leu	Pro	Leu	Pro	Ser	Leu	Val	Trp	Gln	Gln	Asn	Leu
1				5					10					15	
Ser	Phe	Asp	Gln	Ser	Asn	Cys	Leu	Gly	Tyr	Ile	Ser	Phe	Ser	Arg	Pro
			20					25					30		
Leu	Ala	Pro	Leu	Leu	Phe	Gln	Val	Ser	Lys	Met	His	Phe	Gln	Ala	Arg
		35				40						45			
Thr	Gln	Val	Val	Val	Cys	Trp	Pro	Asp	Thr	Thr	Ile	Arg	Phe	Ala	Gly
	50					55					60				
Ser	Ser	Val	His	Thr	Gly	Cys	Val	Phe	Leu	Gly	His	Ala	Ile	Asn	His
65					70				75						80
Leu	Phe	Asn	Ile	Leu	Thr	Leu	Leu	Gln	Leu	Ser	Ala	Thr	Thr	Tyr	Val
			85						90					95	
Asn	Val	Val	Ile	Leu	Ile	Gly	Val	Tyr	Ile	Thr	Val	Pro	Ser	Phe	Thr
			100					105					110		
Ile	Leu	Ile	Ser	Tyr	Val	Phe	Ile	Phe	Ile	Asn	Ile	Leu	Asn	Ile	Lys
		115					120					125			
Ser	Met	Gln	Arg	Ile	Ser	Lys	Asp	Phe	Ser	Ile	Cys	Arg	Phe	His	Ile
	130					135					140				
Ala	Ser	Ile	Tyr	Val	Phe	Ile	Glu	Phe	Thr	Ala	Phe	Lys	Cys	Phe	Lys
145					150					155					160
Tyr	Ser	Tyr	Gly	Ser	Ile	Asp	Gln	Gly	Phe	Tyr	Ser	Ser	Val	Phe	Tyr
				165					170					175	
Thr	Asp	Val	Ile	Leu	Ile	Leu	Asn	Ile	Ile	Ile	Tyr	Ser	Met	Cys	Ile

	180		185		190
Met	Asp Val Glu Met Ala Leu Met	Asp Ala Leu Met	Lys Phe Gln Arg		
	195	200	205		
Asn Val Phe His Leu					
210					

<210> 2348  
 <211> 274  
 <212> PRT  
 <213> Mus musculus

<400> 2348

Leu	Gln	Ile	Leu	Trp	Lys	Lys	Lys	Gly	Ile	Ala	Glu	Leu	Gln	Leu	Leu
1			5					10					15		
Leu	Phe	Phe	Asn	Leu	Leu	Val	Val	Thr	Ile	Val	Gly	Asn	Leu	Asp	Thr
			20					25				30			
Leu	Ile	Ser	Ile	Leu	Phe	Ser	Ser	Gln	Leu	His	Thr	Pro	Val	Val	Tyr
		35				40						45			
Leu	Leu	Ser	Arg	Leu	Leu	Phe	Ile	Asp	Cys	Ser	Lys	Ser	Thr	Val	Ile
	50					55				60					
Thr	Pro	Thr	Met	Leu	Leu	Asn	Phe	Ala	Thr	Glu	Ser	Val	Ile	Cys	Tyr
65				70					75					80	
Glu	Cys	Ile	Pro	Gln	Tyr	Tyr	Phe	Cys	Ala	Phe	Gly	Ala	Ala	Lys	Cys
				85				90						95	
Val	Leu	Leu	Ala	Ala	Val	Ala	Tyr	Asp	Leu	Cys	Val	Ala	Val	His	Asn
			100					105					110		
Pro	Leu	Leu	Tyr	Asn	Leu	Ile	Ile	Ser	Tyr	Gln	Leu	Trp	Ser	Ile	Val
		115				120						125			
Val	Val	Val	Tyr	Gly	Arg	Gly	Leu	Leu	Cys	Thr	Val	Ala	His	Thr	Val
	130					135					140				
Phe	Val	Leu	Arg	Val	Phe	Cys	Phe	Leu	Gln	Asp	Trp	Tyr	Ile	Lys	Pro
145				150				155						160	
Leu	Leu	Ser	Gly	Ser	Ser	Thr	Phe	Ile	Ser	Glu	Leu	Leu	Ala	Ser	Ala
			165					170					175		
Phe	Asn	Leu	Thr	Leu	Leu	Cys	Leu	Gly	Ile	Leu	Ser	Tyr	Tyr	Ile	Phe
		180						185					190		
Ile	Ile	Phe	Ser	Leu	Phe	Gln	Ser	Ile	Gln	Ser	Thr	Ser	Thr	Asp	Gly
		195				200						205			
Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys	Arg	Ser	Ser	Ile	Leu	Ala	Val	Thr
	210					215					220				
Val	Phe	Trp	Gly	Tyr	Ile	Leu	Ala	Leu	Ser	Ser	Leu	Asp	Glu	Gly	Lys
225				230					235					240	
Val	Leu	Thr	Met	Ser	Tyr	Thr	Ile	Leu	Glu	Ser	Met	Val	Lys	Ser	Arg
			245					250					255		
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ala	Lys	Val	Ala	Met	Lys	Asn	Tyr
		260					265					270			
Pro	Gly														

<210> 2349  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 2349

Met	Asn	Ala	Arg	Gly	Asn	Ser	Thr	Glu	Ile	Thr	Gln	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Val	Thr	Asn	Leu	Pro	Arg	Ile	Ile	Ile	Leu	Leu	Phe	Val	Thr	Phe
			20					25					30		
Leu	Leu	Ile	Tyr	Ile	Thr	Thr	Leu	Thr	Trp	Asn	Leu	Ser	Leu	Ile	Val
		35					40					45			
Leu	Ile	Arg	Met	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu
	50					55					60				
Tyr	Asn	Leu	Ser	Ile	Ile	Gly	Leu	Cys	Tyr	Val	Thr	Cys	Thr	Val	Pro
65					70					75					80
Lys	Lys	Met	Leu	Ser	Asn	Phe	Phe	Gln	Glu	Lys	Gln	Thr	Ile	Ser	Phe
				85					90					95	
Val	Gly	Cys	Ile	Val	Gln	Asn	Phe	Ile	Phe	Phe	Thr	Met	Gly	Leu	Ser
			100					105					110		
Glu	Ser	Cys	Leu	Met	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile
		115					120						125		
Cys	Asn	Pro	Leu	Leu	Tyr	Ala	Ser	Ile	Met	Ser	Pro	Thr	Phe	Cys	Val
	130						135				140				
Leu	Lys	Val	Leu	Glu	Ser	Tyr	Leu	Ser	Gly	Ile	Thr	Ala	Ser	Leu	Leu
145					150					155					160
Gln	Leu	Phe	Ala	Leu	Phe	Cys	Gly	Thr	Asn	Val	Ile	Lys	His	Phe	Phe
			165						170					175	
Cys	Gly	Met	Pro	Gln	Leu	Leu	Val	Leu	Ser	Cys	Ile	Asp	Thr	Phe	Leu
			180					185					190		
Thr	Ala	Ile	Leu	Thr	Met	Ile	Phe	Gly	Phe	Val	Asn	Met	Leu	Val	Ile
		195					200						205		
Met	Ile	Ser	Tyr	Gly	Tyr	Ile	Val	Met	Ser	Ile	Leu	Lys	Ile	Thr	Ser
	210					215					220				
Ala	Lys	Gly	Arg	Ser	Lys	Ala	Phe	Asn	Thr	Cys	Ala	Pro	His	Leu	Thr
225					230					235					240
Pro	Val	Ser	Leu	Phe	Leu	Thr	Ser	Ser	Ile	Phe	Val	Tyr	Leu	Ser	Ser
				245					250					255	
Ser	Ser	Gly	Gly	Ser	Ser	Ser	Phe	Asp	Arg	Phe	Val	Ser	Val	Val	Tyr
		260						265					270		
Thr	Val	Val	Ile	Pro	Val	Leu	Ile	Pro	Leu	Ile	Tyr	Ser	Leu	Lys	Asn
		275					280						285		
Arg	Glu	Ile	Lys	Asp	Ala	Met	Lys	Arg	Leu	Lys	Lys	Lys	Thr	Ile	Cys
	290					295					300				
Ser															
305															

<210> 2350  
 <211> 283  
 <212> PRT  
 <213> Mus musculus

<400> 2350  
 Thr Leu Leu Leu Gly Phe Pro Ile Arg Pro Glu Gln Gln Tyr Ile Phe  
 1 5 10 15  
 Phe Thr Leu Leu Leu Ala Met Cys Leu Thr Thr Val Leu Ser Ser Cys  
 20 25 30  
 Thr Ser Thr His Leu His Thr Leu Met Tyr Leu Phe Leu Ile Ile Leu  
 35 40 45  
 His Ile Trp Leu Asp Ser His Pro Gln Val Pro Met Tyr Phe Phe Leu  
 50 55 60  
 Ser His Leu Ala Ser Val Ser Ser Val Thr Val Ser Glu Met Leu Trp



65					70					75				80
Ser	Ile	Gln	Thr	Gln	His	Leu	Ser	Ile	Pro	Tyr	Glu	Gly	His	Phe Ser
				85					90				95	
Asn	Leu	Val	Phe	Pro	Tyr	Phe	Phe	Tyr	Met	Leu	Asp	Asn	Leu	Leu
			100					105					110	
Glu	Met	Val	Val	Tyr	Glu	Arg	Tyr	Val	Ser	Ile	His	Pro	Leu	Tyr Tyr
		115					120					125		
Thr	Ile	Val	Met	Arg	Glu	Glu	Leu	Tyr	Asp	Leu	Leu	Val	Ser	Gly Cys
		130					135					140		
Cys	Phe	Ile	Ser	Tyr	Ile	His	Thr	Leu	Leu	His	Thr	Leu	Leu	Leu Cys
145					150					155				160
Gln	Ser	Ile	Pro	Tyr	His	Phe	Cys	Tyr	Phe	Asn	Glu	His	Leu	Lys Leu
				165					170					175
Ser	Cys	Leu	Asn	Thr	Pro	Phe	Asn	Glu	Leu	Val	Ile	Phe	Ile	Glu Gly
			180					185					190	
Val	Leu	Thr	Phe	Leu	Pro	Leu	Gly	Thr	Ile	Ser	Gly	Pro	Tyr	Ile Cys
		195					200					205		
Thr	Gly	Ala	Thr	Val	Leu	Lys	Cys	Pro	Ser	Met	Lys	Asn	Ile	Tyr Lys
		210				215						220		
Val	Leu	His	Gly	Ala	Phe	Ala	Leu	Val	Leu	Ala	Ile	Ile	Tyr	Phe Phe
225					230					235				240
His	Phe	Ser	Asn	Asn	Ser	Lys	Phe	Lys	Val	Val	Ile	Val	Ser	Val Met
				245					250					255
Tyr	Thr	Val	Val	Thr	Thr	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Ile Glu
			260					265					270	
Ile	Lys	Leu	Ala	His	Gly	Pro	Leu	Tyr	Arg	Lys				
		275					280							

<210> 2351  
 <211> 304  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (166)...(200)  
 <223> Any amino acid

<400> 2351

Met	Glu	Asn	His	Ser	Leu	Thr	Leu	Val	Thr	Glu	Phe	Ile	Leu	Met	Gly
1				5					10				15		
Ile	Thr	Glu	Arg	Pro	Glu	Leu	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Phe	Leu
			20					25					30		
Ile	Ile	Tyr	Ile	Phe	Ser	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu
		35					40					45			
Thr	Met	Val	Glu	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg
		50				55					60				
His	Leu	Ala	Thr	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys
65					70				75					80	
Met	Leu	Arg	Ser	Phe	Leu	Val	Asp	Gln	Asn	Arg	Ile	Ser	Phe	His	Phe
				85					90					95	
Cys	Ala	Val	Gln	Phe	Ala	Phe	Phe	Ser	Met	Phe	Ile	Ile	Ser	Glu	Phe
			100					105					110		
Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Leu	Tyr	Asn	Val	Ile	Met	Ser	Gln	Arg	Val	Cys	Trp	Val	Leu

130	135	140
Val Thr Ile Pro Tyr Leu Ser Ile Phe Val Ala Leu Ile Ala Thr Ile		
145	150	155
Asn Ile Phe Ser Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa		160
	165	170
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa		175
	180	185
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Pro Leu Val Ile Leu Val Ser		190
	195	200
Tyr Leu Leu Ile Leu Arg Ala Ile Leu Arg Met Asn Ser Ala Glu Gly		205
	210	215
Arg Gln Lys Ala Phe Ser Thr Cys Gly Ser His Leu Thr Val Val Ile		220
225	230	235
Val Phe Tyr Gly Thr Leu Ile Phe Met Tyr Val Gln Pro Lys Ser Ser		240
	245	250
His Ser Leu Asn Thr Asp Asn Ala Ala Ser Ile Phe Tyr Thr Leu Ile		255
	260	265
Ile Leu Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val		270
	275	280
Lys Tyr Ser Ile Arg Lys Thr Gly Lys Thr Ile Gln Asn Ile Phe Ser		285
	290	295
		300

<210> 2352

<211> 297

<212> PRT

<213> Mus musculus

<400> 2352

Met Glu Lys Tyr Asn Leu Thr Met Val Thr Glu Phe Ile Leu Val Gly	
1	5
Ile Pro Tyr His Pro Glu Phe Gln Val Leu Leu Phe Gly Leu Phe Leu	
	10
	15
	20
Ile Ile Tyr Leu Thr Ser Leu Val Gly Asn Leu Gly Met Ile Ile Leu	
	25
	30
	35
	40
	45
Ala Met Val Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg	
50	55
	60
His Leu Ala Thr Ile Asp Leu Gly Trp Ser Thr Lys Met Leu Asn Asn	
65	70
	75
	80
Phe Leu Val Asp Gln Asn Ala Ile Ser Phe Tyr Ala Cys Ala Ile Gln	
	85
	90
	95
Leu Ser Phe Phe Ser Met Phe Thr Ile Lys Lys Phe Phe Ile Leu Ser	
	100
	105
	110
Ala Met Ser Tyr Asp Cys Tyr Val Ala Phe Cys Lys Pro Leu Leu Tyr	
	115
	120
	125
Thr Ile Ile Met Ala Ile Trp Val Met Ile Leu Ile Thr Ile Val Asp	
	130
	135
	140
Ser Arg Gln Lys Thr Pro Met Asn Ile Ile Leu Gln Thr Cys Ser Asn	
145	150
	155
	160
Tyr Asn Phe His Leu Leu Asn Ser Cys Gln Tyr Gln Asn Phe Glu Ile	
	165
	170
	175
Phe Tyr Cys Gly Ser Lys Pro Val Ser Phe Arg Leu Phe Ala Ser Gln	
	180
	185
	190
Ile Ser Leu Leu Tyr Phe Pro His Ser Leu Ala Phe Tyr Tyr Phe Ile	
	195
	200
	205
Ile Ser Val Thr Ser Met Trp Pro Val Ala Ala Asn Leu Cys Phe Tyr	
	210
	215
	220

Gly	His	His	Ile	Lys	Lys	Ser	Leu	Leu	Val	Ser	Ser	Gly	Asp	His	Leu
225					230					235					240
Tyr	Leu	Thr	Thr	Leu	Pro	Val	Ile	Met	Lys	Ile	Lys	Met	Phe	Thr	Leu
				245					250					255	
Phe	Phe	Cys	Val	His	Lys	Ser	Ser	Val	Ile	Ser	Asn	Ala	Thr	Val	Phe
			260					265					270		
Leu	Phe	Asn	Val	Ala	Leu	Phe	Glu	Tyr	Ser	Gln	Asn	Thr	Asp	His	Leu
		275					280					285			
Ile	Ser	Ser	Ala	Phe	Phe	Pro	Leu	Phe							
	290					295									

<210> 2353  
 <211> 271  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (139)...(145)  
 <223> Any amino acid

<400> 2353

Met	Glu	Lys	Gln	Asn	Leu	Thr	Val	Leu	Ser	Glu	Phe	Ile	Leu	Lys	Gly
1				5					10					15	
Ile	Thr	Asp	Arg	Pro	Glu	Met	Gln	Ala	Pro	Leu	Phe	Gly	Leu	Leu	Phe
			20					25					30		
Ile	Ile	Tyr	Leu	Ile	Ser	Ala	Val	Gly	Asn	Leu	Gly	Ile	Ile	Ile	Ile
		35					40					45			
Thr	Asn	Val	Gly	Ser	Arg	Leu	Cys	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Lys
	50					55					60				
His	Leu	Ala	Phe	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Ile	Gly	Pro	Lys
65					70				75					80	
Met	Leu	Val	Asn	Phe	Val	Ala	Glu	Asn	Asn	Ser	Val	Ser	Tyr	Tyr	Leu
			85					90					95		
Cys	Ala	Thr	Gln	Leu	Ala	Cys	Phe	Leu	Leu	Phe	Ile	Thr	Trp	Glu	Leu
			100					105					110		
Leu	Ile	Phe	Ser	Ser	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Pro	Ile	Cys	Asn
		115					120					125			
Pro	Leu	Leu	Tyr	Thr	Gly	Ile	Met	Ser	Gln	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	130					135					140				
Xaa	Glu	Phe	Trp	Val	Leu	Ile	Leu	Thr	Phe	Phe	Ile	Ile	Ile	Ile	Leu
145					150					155				160	
Glu	Lys	Lys	Ile	Lys	Val	Pro	Leu	Leu	Ser	Phe	Arg	Gly	Lys	Gly	Glu
			165						170				175		
Phe	Lys	Gln	Asp	Leu	Ser	Thr	Leu	Cys	Ile	Glu	Tyr	His	Val	Glu	Val
			180					185					190		
Ser	Ser	Asp	His	Lys	Cys	Val	Ser	Leu	Ser	Phe	Met	Met	Ser	Gly	Lys
		195					200					205			
Ala	Lys	Glu	Thr	Leu	Asn	Cys	Leu	Cys	Ser	Leu	Leu	Thr	Phe	Gln	Lys
	210					215						220			
Lys	Met	Gly	Pro	Leu	Cys	Gly	Leu	Phe	Leu	Phe	Phe	Tyr	Gly	Val	Arg
225					230					235				240	
Gln	Ala	Phe	Tyr	Phe	Arg	Leu	Gln	Phe	Ile	Tyr	Met	Cys	Cys	Leu	Gln
			245						250					255	
Met	Lys	Phe	Asp	Tyr	Asp	Ile	Lys	Leu	Leu	Ile	Ser	Val	His	Tyr	
			260					265					270		

<210> 2354  
 <211> 268  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (194)...(229)  
 <223> Any amino acid

<400> 2354  
 Met Asp Gly Gly Asn Gln Thr Ile Val Ser Glu Phe Ile Leu Gln Gly  
 1 5 10 15  
 Leu Ala Asn Ser Lys Asn Ile Gln Val Leu Leu Phe Met Ile Leu Leu  
 20 25 30  
 Thr Leu Tyr Leu Leu Ile Met Ser Gly Asn Ile Val Ile Leu Ile Leu  
 35 40 45  
 Ile Thr Thr Asp Pro His Leu Ser Pro Met Tyr Phe Leu Leu Ala  
 50 55 60  
 Asn Met Ser Phe Val Asp Met Trp Leu Ser Ser Asn Ile Thr Pro Lys  
 65 70 75 80  
 Met Ile Thr Gly Phe Leu Arg Glu Asn Lys Thr Ile Ser Phe Ala Gly  
 85 90 95  
 Cys Met Phe Gln Val Phe Phe Ser His Cys Ile Ala Ala Gly Glu Met  
 100 105 110  
 Val Leu Leu Val Val Met Ala Tyr Asp His Tyr Val Ala Ile Cys Lys  
 115 120 125  
 Pro Leu His Tyr Ile Thr Ile Met Asn Leu Lys Arg Cys Thr Gly Leu  
 130 135 140  
 Val Phe Thr Ser Trp Ile Ile Gly Phe Ile His Gly Ile Ser His Leu  
 145 150 155 160  
 Val Val Val Val His Leu Arg Phe Cys Gly Pro Lys Glu Thr Asp Ser  
 165 170 175  
 Phe Phe Cys Asp Met Pro Leu Val Ile Lys Leu Ala Cys Met Asp Ser  
 180 185 190  
 His Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 195 200 205  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 210 215 220  
 Xaa Xaa Xaa Xaa Xaa Ile Thr Val Val Leu Tyr Thr Phe Pro Asn Ser  
 225 230 235 240  
 His Val Thr Trp Glu Asn Ile Asn Lys Phe Phe Pro Ser Ile His Leu  
 245 250 255  
 Tyr Ala Ile His Thr Pro Lys Leu Ser Thr Ser Ile  
 260 265

<210> 2355  
 <211> 231  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (89)...(96)

<223> Any amino acid

<400> 2355

Thr	His	Thr	Glu	Asp	Ser	Asn	Gln	Thr	Val	Val	Ser	Ala	Phe	Ile	Phe
1				5					10					15	
Gln	Gly	Leu	Cys	Thr	Ser	Arg	Gln	Leu	Glu	Ile	Phe	Leu	Leu	Leu	Pro
		20						25				30			
Phe	Ser	Val	Leu	Tyr	Leu	Met	Thr	Leu	Val	Asp	Asn	Leu	Phe	Val	Val
	35						40				45				
Ile	Leu	Ile	Ile	Thr	Asp	His	His	Phe	Asn	Ser	Pro	Met	Tyr	Phe	Leu
	50					55					60				
Ser	Ala	Asn	Leu	Ser	Phe	Gly	Asp	Phe	Tyr	Leu	Ser	Ser	Val	Asn	Thr
65					70				75					80	
Pro	Lys	Leu	Thr	Ile	Asp	Leu	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				85				90						95	
Leu	Met	Ser	Val	Leu	Leu	Leu	Arg	Asn	Thr	Leu	Thr	Met	His	Ser	Phe
		100						105					110		
Tyr	Lys	Gly	Lys	His	Leu	Ile	Gly	Asn	Ser	Leu	Gln	Phe	Gln	Arg	Phe
	115						120					125			
Ile	Ser	Phe	Ser	Ser	Leu	Trp	Val	Val	Ile	Ala	Ala	Cys	Arg	Tyr	Thr
	130					135					140				
Cys	Thr	Gly	Asp	Ile	Val	Glu	Arg	Ser	Thr	Asp	Arg	Ser	Met	His	Asn
145					150					155				160	
Arg	Lys	Lys	Glu	Thr	Leu	Asn	Leu	Lys	Ala	Phe	Glu	Ile	Thr	Asn	Pro
				165					170					175	
Ser	Phe	Ser	Cys	Thr	Leu	Pro	Gln	Thr	Arg	Cys	Met	Pro	Ser	Asn	Pro
		180						185					190		
Ser	Gln	Val	Met	Pro	Leu	Pro	Asn	Asp	Val	Phe	Lys	Tyr	Ile	Ser	Leu
	195						200					205			
Lys	Val	Phe	Leu	Phe	Lys	Ala	Phe	Ser	Leu	Ile	Ile	Met	Asn	Ala	Phe
	210					215					220				
Ser	Pro	Thr	Ser	Lys	Val	Ser									
225					230										

<210> 2356

<211> 314

<212> PRT

<213> Mus musculus

<400> 2356

Met	Lys	Asn	Lys	Ser	Met	Glu	Leu	Asp	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Leu	Gln	Ile	Val	Val	Phe	Leu	Phe	Leu	Phe	Leu	Asn
		20						25				30			
Tyr	Val	Met	Ser	Leu	Val	Gly	Asn	Leu	Ile	Ile	Val	Leu	Leu	Thr	Leu
	35						40					45			
Leu	Asp	Pro	Arg	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Met	Phe	Thr	Thr	Val	Cys	Ile	Pro	Arg	Phe	Leu
65					70					75				80	
Thr	Thr	Ile	Val	Thr	Gly	Asp	Lys	Thr	Ile	Thr	Tyr	Asn	Asn	Cys	Ala
			85					90						95	
Ala	Gln	Leu	Phe	Ile	Leu	Leu	Leu	Gly	Val	Thr	Glu	Phe	Tyr	Leu	
		100					105					110			
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu
		115					120					125			

His	Tyr	Pro	Ile	Ile	Met	Asn	Ser	Lys	Val	Cys	His	Gln	Leu	Val	Leu
130						135					140				
Ser	Ser	Trp	Val	Thr	Gly	Phe	Leu	Ile	Ile	Phe	Pro	Pro	Leu	Ala	Met
145					150					155					160
Gly	Leu	Lys	Leu	Asp	Phe	Cys	Asp	Ser	Arg	Ile	Ile	Asp	His	Phe	Met
				165					170					175	
Cys	Glu	Thr	Ser	Pro	Ile	Leu	Gln	Ile	Ser	Cys	Thr	Asp	Thr	His	Val
			180					185					190		
Leu	Glu	Met	Met	Ser	Phe	Val	Leu	Ala	Val	Val	Thr	Leu	Val	Val	Thr
		195					200					205			
Leu	Val	Leu	Val	Ser	Leu	Ser	Tyr	Ser	Phe	Ile	Ile	Lys	Thr	Ile	Met
		210				215					220				
Ser	Phe	Pro	Ser	Ala	Gln	Gln	Arg	Thr	Lys	Ala	Phe	Ser	Thr	Cys	Thr
225					230					235					240
Ser	His	Met	Phe	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Met
				245					250					255	
Tyr	Ile	Lys	Pro	Ser	Ala	Arg	Glu	Arg	Val	Ser	Val	Ser	Lys	Gly	Val
			260				265						270		
Ala	Leu	Leu	Tyr	Thr	Ser	Ile	Ala	Pro	Ser	Pro	Glu	Pro	Leu	Leu	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Glu	Val	Phe	Trp	Asp	Val	Leu	Gln
		290				295					300				
Lys	Thr	Leu	Gly	Phe	Ser	Lys	His	Lys	Val						
305					310										

<210> 2357  
 <211> 221  
 <212> PRT  
 <213> Mus musculus

<400> 2357

Ser	Tyr	Ala	Gly	Cys	Val	Ser	Gln	Leu	Val	Phe	Tyr	His	Phe	Leu	Gly
1				5					10					15	
Gly	Thr	Glu	Cys	Phe	Leu	Tyr	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val
			20					25					30		
Ala	Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Ser	Val	Ile	Met	Ser	His	Arg	Ile
		35					40					45			
Cys	Ala	Phe	Leu	Ala	Met	Gly	Thr	Ala	Val	Phe	Gly	Cys	Ile	His	Ser
	50					55					60				
Thr	Phe	Leu	Thr	Thr	Leu	Thr	Phe	Gln	Leu	Pro	Tyr	Cys	Gly	Pro	Lys
65					70					75					80
Asp	Val	Asn	Tyr	Tyr	Phe	Cys	Asp	Ile	Pro	Val	Val	Met	Lys	Leu	Ala
				85					90					95	
Cys	Ala	Asp	Thr	Ser	Thr	Leu	Glu	Met	Val	Gly	Phe	Ile	Ser	Val	Gly
			100					105					110		
Leu	Met	Pro	Leu	Ser	Cys	Phe	Phe	Phe	Ile	Leu	Thr	Ser	Tyr	Ser	Cys
		115						120					125		
Ile	Val	Arg	Ser	Ile	Leu	Gln	Ile	Arg	Ser	Thr	Glu	Gly	Arg	His	Arg
		130				135						140			
Ala	Phe	Ser	Thr	Cys	Ser	Ala	His	Phe	Thr	Ala	Ile	Leu	Leu	Phe	Tyr
145					150					155					160
Met	Pro	Val	Ile	Phe	Ile	Tyr	Leu	Arg	Pro	Thr	Pro	Ser	Pro	Trp	Leu
				165					170					175	
Asp	Ala	Thr	Val	Gln	Ile	Leu	Asn	Asn	Leu	Val	Thr	Pro	Met	Leu	Asn
			180					185					190		
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ser	Leu	Trp

	195		200		205
Thr	Val	Leu	His	Leu	Leu
	210		215		220

<210> 2358  
 <211> 199  
 <212> PRT  
 <213> Mus musculus

<400> 2358  
 Ile Leu Leu Thr Leu Met Gly Tyr Asp Arg Phe Leu Ala Ile Cys Asn  
 1 5 10 15  
 Pro Leu Arg Tyr Pro Leu Leu Met Thr Asn Val Ala Cys Gly Gln Leu  
 20 25 30  
 Val Ala Ser Ala Trp Val Gly Gly Phe Phe Ile Ser Leu Ile Glu Thr  
 35 40 45  
 Thr Leu Ile Phe Arg Val Ser Phe Cys Ile Pro Asn Leu Ile Arg His  
 50 55 60  
 Phe Phe Cys His Met Arg Ala Val Leu Arg Leu Ser Cys Thr Asp Ser  
 65 70 75 80  
 Asn Phe Thr Glu Phe Ile Val Thr Leu Met Ser Val Ser Gly Leu Leu  
 85 90 95  
 Gly Thr Phe Leu Leu Ile Leu Leu Thr Tyr Val Phe Ile Leu Ser Ser  
 100 105 110  
 Val Leu Lys Ile Pro Ser Ala Glu Gly Lys Gln Lys Ala Phe Ser Thr  
 115 120 125  
 Cys Ala Ser His Leu Thr Val Val Leu Ile His Phe Gly Phe Ala Ser  
 130 135 140  
 Val Val Tyr Met Lys Pro Glu Asn Ser Gly Gly Asp Asp Thr Leu Ile  
 145 150 155 160  
 Ala Val Pro Tyr Thr Val Ile Thr Pro Phe Leu Ser Pro Ile Ile Phe  
 165 170 175  
 Thr Leu Arg Asn Lys Asp Met Lys Asn Ala Phe Arg Lys Ile Met Arg  
 180 185 190  
 Lys Thr Val Val Leu Lys Lys  
 195

<210> 2359  
 <211> 182  
 <212> PRT  
 <213> Mus musculus

<400> 2359  
 Arg Val Cys Ile Leu Phe Leu Val Met Ala Trp Ala Gly Gly Leu Ala  
 1 5 10 15  
 His Ala Phe Val Gln Val Leu Ala Val Tyr Asn Phe Pro Phe Cys Gly  
 20 25 30  
 Pro Asn Ile Ile Asp His Phe Gly Cys Asp Ile Tyr Pro Leu Leu Leu  
 35 40 45  
 Leu Ala Cys Thr Asp Thr Tyr Phe Leu Gly Leu Ser Ile Ile Gly Asn  
 50 55 60  
 Asn Gly Ala Met Cys Ile Val Ile Phe Thr Leu Leu Leu Ser Tyr  
 65 70 75 80  
 Gly Ile Ile Leu Arg Phe Leu Lys Asn His Ser Gln Glu Gly Arg Arg  
 85 90 95

Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	His	Ile	Thr	Val	Val	Phe	Leu	Phe
		100						105					110		
Phe	Val	Pro	Cys	Ile	Phe	Met	Tyr	Val	Arg	Pro	Val	Ser	Ser	Phe	Pro
		115					120					125			
Ile	Asp	Lys	Phe	Ile	Thr	Val	Ile	Tyr	Thr	Ile	Val	Thr	Pro	Met	Leu
	130					135					140				
Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Ser	Glu	Met	Lys	Asn	Ser	Met
145					150					155					160
Glu	Lys	Leu	Leu	Gln	Lys	Thr	Leu	Ser	Pro	Ser	Arg	Ile	Arg	Leu	Ser
				165					170					175	
Ser	Cys	Cys	Leu	Cys	Tyr										
			180												

<210> 2360  
 <211> 154  
 <212> PRT  
 <213> Mus musculus

Thr	Leu	Ile	Ile	Ser	Ile	Asn	Ile	Ile	Asp	Ser	Asn	Ile	Ile	Asp	His
1				5					10					15	
Phe	Gly	Cys	Asp	Val	Asn	Pro	Leu	Leu	Lys	Ile	Ser	Cys	Ser	Asp	Lys
			20					25				30			
Trp	Leu	Ile	Glu	Gln	Met	Val	Ile	Cys	Ser	Ala	Val	Leu	Thr	Phe	Ile
		35					40					45			
Ile	Thr	Leu	Leu	Cys	Ala	Val	Phe	Ser	Tyr	Met	Tyr	Ile	Ile	Arg	Thr
	50					55					60				
Val	Leu	Lys	Phe	Pro	Ser	Ala	Gln	Gln	Lys	Arg	Lys	Ala	Phe	Ser	Thr
65					70					75					80
Cys	Ser	Ser	His	Met	Ile	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile
			85						90					95	
Phe	Ile	Tyr	Ile	Lys	Pro	Ser	Ala	Lys	Glu	Glu	Val	Thr	Ile	Asn	Lys
			100					105					110		
Cys	Leu	Ser	Gly	Leu	Ile	Ser	Ser	Ile	Ser	Pro	Met	Leu	Asn	Pro	Phe
		115					120					125			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Gln	Val	Lys	Gln	Ala	Ser	Gln	Asp	Leu
	130					135					140				
Ile	Lys	Lys	Ile	Ala	Phe	Leu	Leu	Lys	Lys						
145					150										

<210> 2361  
 <211> 132  
 <212> PRT  
 <213> Mus musculus

Thr	Ser	Leu	Tyr	Glu	Thr	Leu	Met	Tyr	Ala	Cys	Cys	Val	Leu	Met	Leu
1				5					10					15	
Leu	Ile	Pro	Ile	Ser	Phe	Ile	Ser	Val	Ser	Tyr	Thr	Arg	Ile	Leu	Ile
			20					25				30			
Thr	Val	Tyr	His	Met	Ser	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Thr
		35					40					45			
Thr	Cys	Ser	Ser	His	Ile	Ile	Val	Val	Ser	Ile	Phe	Tyr	Gly	Ala	Ala
	50					55					60				
Phe	Tyr	Thr	Asn	Val	Leu	Pro	His	Ser	Tyr	His	Thr	Pro	Glu	Lys	Asp



65					70					75				80	
Lys	Val	Val	Ser	Ala	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Met	Leu	Asn	Pro
				85					90					95	
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Val	Ala	Val	Ala	Leu	Arg	Lys
			100					105					110		
Val	Leu	Arg	Lys	Tyr	Ala	Ser	Ser	Gln	Arg	Leu	Arg	Val	Arg	His	Ile
		115					120					125			
Pro	Glu	Lys	Tyr												
	130														

<210> 2362  
 <211> 230  
 <212> PRT  
 <213> Mus musculus

<400> 2362															
Gln	Val	Leu	Leu	Ile	Phe	Trp	Phe	Asn	Met	Lys	Pro	Ile	Ser	Phe	Val
1				5					10					15	
Gly	Cys	Phe	Leu	Gln	Met	Phe	Val	Met	Asn	Thr	Phe	Leu	Pro	Met	Glu
			20					25					30		
Ser	Ser	Thr	Phe	Leu	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		35					40					45			
His	Pro	Leu	Trp	Phe	Leu	Ser	Ile	Ile	Lys	Lys	Gln	Phe	Val	Ile	Asn
	50					55					60				
Ala	Gly	Ile	Phe	Ile	Val	Val	Arg	Asn	Leu	Leu	Ala	Thr	Leu	Pro	Thr
65					70					75					80
Pro	Val	Leu	Ala	Ala	Arg	Leu	Asn	Tyr	Cys	Ala	Ser	Asn	Val	Val	Glu
				85					90					95	
Asn	Cys	Ile	Cys	Ala	Asn	Ile	Ser	Val	Ala	Lys	Leu	Ser	Cys	Gly	Asp
			100					105					110		
Ile	Arg	Leu	Asn	Lys	Leu	Tyr	Gln	Phe	Val	Ser	Val	Trp	Cys	Leu	Leu
		115					120					125			
Gly	Ser	Asp	Leu	Val	Leu	Ile	Leu	Leu	Ser	Tyr	Cys	Phe	Ile	Leu	Arg
	130					135					140				
Val	Val	Met	Cys	Gln	Gln	Ser	Gly	Gly	Thr	Val	Thr	Lys	Ala	Leu	Ser
145					150					155					160
Thr	Cys	Gly	Ser	His	Leu	Ile	Leu	Ile	Leu	Phe	Phe	Tyr	Thr	Leu	Leu
				165					170					175	
Leu	Val	Phe	Ile	Phe	Thr	Asn	Lys	Ala	Gly	Lys	Lys	Ile	Pro	Ser	Glu
			180					185					190		
Val	Pro	Ile	Leu	Leu	Asn	Val	Leu	His	His	Leu	Ile	Pro	Pro	Ala	Leu
	195					200						205			
Asn	Pro	Ile	Val	Tyr	Gly	Val	Arg	Thr	Gln	Glu	Ile	Lys	Gln	Gly	Ile
	210					215						220			
Ile	Lys	Leu	Phe	Lys	His										
225					230										

<210> 2363  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2363															
Met	Asn	Glu	Ala	Asn	Tyr	Ser	Glu	Val	Ser	Glu	Phe	Ile	Phe	Leu	Gly
1				5					10					15	

Leu	Ser	Thr	Tyr	Arg	Pro	Thr	Gln	Tyr	Phe	Leu	Phe	Ala	Phe	Ala	Ile
			20					25					30		
Ile	Ser	Tyr	Ala	Ala	Thr	Phe	Leu	Gly	Asn	Phe	Ser	Val	Val	Phe	Ile
		35					40					45			
Val	Ile	Phe	Asp	Pro	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Phe	Val	Asp	Phe	Cys	Phe	Ser	Thr	Ser	Thr	Val	Pro	Lys
65					70					75					80
Leu	Ile	Ser	Asp	Leu	Tyr	Ser	Gly	His	Ser	Ile	Ile	Ser	Ile	Gln	Ser
				85					90					95	
Cys	Ile	Phe	Gln	Met	Phe	Val	Leu	His	Leu	Leu	Gly	Gly	Cys	Glu	Met
			100					105					110		
Val	Leu	Leu	Val	Ala	Met	Ala	Trp	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
			115				120					125			
Pro	Leu	Tyr	Tyr	Leu	Thr	Ile	Met	Asn	Pro	Arg	Met	Cys	Leu	Leu	Leu
	130					135					140				
Leu	Ile	Ser	Ala	Trp	Ile	Ile	Gly	Leu	Ile	His	Ser	Val	Ala	Gln	Leu
145					150					155					160
Ala	Phe	Val	Val	His	Leu	Pro	Phe	Cys	Ala	Ser	Asn	Glu	Ile	Asp	Ser
				165					170					175	
Phe	Tyr	Cys	Asp	Leu	Pro	Arg	Phe	Ile	Lys	Met	Ala	Cys	Ile	Asn	Thr
			180					185					190		
Tyr	Arg	Met	Glu	Phe	Leu	Val	Thr	Ala	Asp	Ser	Gly	Phe	Ile	Ser	Leu
		195					200					205			
Ser	Thr	Phe	Phe	Leu	Leu	Ile	Ile	Ser	Tyr	Ile	Phe	Ile	Leu	Phe	Ile
	210					215					220				
Val	Arg	Lys	Gln	Ser	Leu	Gly	Ser	Leu	Ser	Lys	Ala	Phe	Ser	Thr	Leu
225					230					235					240
Ser	Ala	His	Ile	Cys	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe
				245					250					255	
Val	Tyr	Ile	Trp	Pro	Phe	Pro	Thr	Val	Pro	Val	Asp	Lys	Phe	Leu	Ala
			260					265					270		
Ile	Leu	Asp	Phe	Met	Ile	Ile	Pro	Ile	Leu	Asn	Pro	Ala	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Lys	Asp	Met	Lys	Val	Ala	Met	Arg	Arg	Leu	Ser	Val	Gln
	290					295					300				
Leu	Leu	Ser	Arg	Lys	Ser	Ile	Cys								
305					310										

<210> 2364  
 <211> 227  
 <212> PRT  
 <213> Mus musculus

<400> 2364

Met	Glu	Asp	Ser	Asn	Gln	Thr	Val	Val	Ser	Glu	Phe	Ile	Phe	Gln	Gly
1				5					10					15	
Leu	Cys	Thr	Ser	Arg	Gln	Leu	Glu	Ile	Phe	Leu	Leu	Leu	Pro	Phe	Ser
			20					25					30		
Val	Leu	Tyr	Leu	Val	Thr	Leu	Val	Gly	Asn	Leu	Phe	Val	Val	Ile	Leu
		35					40					45			
Ile	Ile	Ile	Asp	His	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Phe	Val	Asp	Phe	Cys	Leu	Ser	Ser	Val	Asn	Thr	Pro	Lys
65					70					75					80
Leu	Thr	Ile	Asp	Leu	Leu	Lys	Glu	Asn	Lys	Thr	Ile	Ser	Phe	Gly	Gly

				85					90				95				
Cys	Met	Ser	Gln	Ile	Leu	Cys	Val	His	Phe	Phe	Gly	Gly	Ser	Glu	Met		
			100					105					110				
Val	Leu	Leu	Val	Thr	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg		
		115					120					125					
Pro	Leu	His	Tyr	Ser	Ser	Ile	Met	Asp	Arg	Gln	Lys	Cys	Ile	Trp	Leu		
	130					135					140						
Val	Val	Ile	Ser	Trp	Ile	Val	Gly	Phe	Val	His	Ala	Ile	Ser	Gln	Leu		
145					150					155					160		
Leu	Leu	Ile	Leu	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Arg	Val	Ile	Asp	Ser		
			165					170						175			
Phe	Phe	Cys	Asp	Ile	Pro	Leu	Val	Met	Lys	Leu	Ala	Cys	Met	Asn	Thr		
		180					185						190				
Asp	Thr	Leu	Glu	Ile	Leu	Ile	Asn	Ala	Asp	Ser	Gly	Ile	Leu	Ala	Thr		
	195					200						205					
Thr	Cys	Phe	Thr	Leu	Leu	Leu	Ile	Ser	Tyr	Thr	Tyr	Ile	Leu	Leu	Thr		
	210					215					220						
Val	Gln	His															
225																	

<210> 2365  
 <211> 271  
 <212> PRT  
 <213> Mus musculus

<400> 2365

Met	Ala	Ile	Ile	Gly	Glu	Glu	Asn	Met	Thr	Gln	Ile	Ser	Glu	Ile	Ile		
1				5				10					15				
Leu	Leu	Gly	Phe	Gly	Asp	Leu	His	Gly	Leu	Gln	Phe	Leu	Leu	Phe	Gly		
		20					25					30					
Leu	Phe	Leu	Ala	Ile	Tyr	Val	Met	Thr	Leu	Leu	Gly	Asn	Ile	Val	Ile		
	35					40					45						
Leu	Thr	Val	Val	Ser	Thr	Asp	Cys	Ser	Leu	His	Thr	Pro	Met	Tyr	Phe		
	50				55						60						
Phe	Leu	Gly	His	Phe	Ser	Phe	Leu	Glu	Ile	Ser	Tyr	Thr	Thr	Thr	Ile		
65					70					75					80		
Glu	Pro	Val	Met	Leu	Trp	Thr	Leu	Leu	Ser	Ala	His	Val	Pro	Ile	Ser		
			85					90					95				
Leu	Pro	Ala	Cys	Ala	Cys	Gln	Phe	Tyr	Phe	Phe	Ala	Ser	Leu	Val	Ala		
		100					105						110				
Thr	Glu	Cys	Phe	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Ile	Ala		
	115					120						125					
Ile	Cys	Asn	Pro	Leu	His	Tyr	Ser	Ser	Ile	Met	Asp	Ser	Trp	Gly	Cys		
	130				135					140							
Phe	Gln	Leu	Ala	Leu	Ala	Ser	Trp	Leu	Ala	Gly	Phe	Leu	Ala	Pro	Ile		
145				150					155					160			
Leu	Leu	Met	Ile	Leu	Ile	Phe	Arg	Leu	Thr	Phe	Cys	Ser	Ala	Asn	Glu		
		165					170							175			
Ile	Asp	His	Phe	Phe	Cys	Asp	Leu	Lys	Pro	Ile	Met	Lys	Leu	Ala	Cys		
	180					185						190					
Thr	Asn	Thr	Gln	Val	Ala	Glu	Met	Thr	Ser	Phe	Ile	Cys	Thr	Ser	Leu		
	195					200						205					
Phe	Ala	Leu	Gly	Pro	Phe	Ile	Leu	Thr	Leu	Ala	Ser	Tyr	Ile	His	Ile		
	210				215						220						
Ile	Cys	Thr	Ile	Leu	Arg	Ile	Pro	Ser	Thr	Thr	Gly	Lys	Gln	Arg	Ala		
225				230						235				240			

Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val	Ser	Leu	Tyr	Tyr	Gly
				245					250					255	
Thr	Leu	Gly	Ile	Val	Tyr	Gly	Phe	Pro	Ser	Met	Pro	Gln	Tyr	Glu	
			260					265					270		

<210> 2366  
 <211> 134  
 <212> PRT  
 <213> Mus musculus

<400> 2366

Lys	Leu	Pro	Cys	Gly	Asn	Val	Lys	Val	Asn	Ala	Ile	Tyr	Gly	Leu	Met
1				5					10					15	
Val	Ala	Leu	Leu	Ile	Gly	Gly	Phe	Asp	Ile	Leu	Cys	Ile	Thr	Ile	Ser
			20					25					30		
Tyr	Ile	Met	Ile	Leu	Arg	Ala	Val	Val	Ser	Leu	Ser	Ser	Ala	Asp	Ala
		35					40					45			
Arg	Gln	Lys	Ala	Phe	Ser	Thr	Cys	Thr	Ala	His	Ile	Cys	Ala	Ile	Val
	50					55					60				
Phe	Ser	Tyr	Ser	Pro	Thr	Phe	Leu	Ser	Phe	Phe	Ser	His	His	Phe	Gly
65					70					75					80
Gly	His	Thr	Ile	Pro	Pro	Ser	Cys	His	Ile	Ile	Val	Ala	Asn	Ile	Tyr
				85					90					95	
Leu	Leu	Leu	Pro	Pro	Thr	Met	Asn	Pro	Val	Val	Tyr	Gly	Val	Lys	Thr
			100					105					110		
Lys	Gln	Ile	Gln	Asp	Cys	Val	Ile	Arg	Ile	Phe	Ser	Glu	Ser	Lys	Asp
		115					120					125			
Ser	Lys	Ala	His	Gly	Ile										
															130

<210> 2367  
 <211> 125  
 <212> PRT  
 <213> Mus musculus

<400> 2367

Leu	Ala	Cys	Gln	Asp	Thr	Gly	Arg	Asn	Arg	Gly	Pro	Arg	Cys	Leu	Trp
1				5					10					15	
Pro	Glu	Pro	Ile	Ile	Leu	Val	Phe	Pro	Ala	Thr	Leu	Ile	Leu	Gly	Ser
			20					25					30		
Tyr	Gly	His	Ile	Ala	Lys	Ala	Val	Leu	Lys	Val	Lys	Ser	Thr	Ala	Gly
		35					40					45			
Arg	Arg	Lys	Ala	Phe	Gly	Thr	Cys	Gly	Ser	His	Leu	Leu	Val	Val	Ser
	50					55					60				
Leu	Phe	Tyr	Gly	Ser	Ala	Ile	Tyr	Thr	Tyr	Leu	Gln	Pro	Lys	Ser	Ser
65					70					75					80
Tyr	Ser	Glu	Ser	Asp	Gly	Lys	Phe	Val	Ala	Leu	Phe	Tyr	Thr	Ile	Val
				85					90					95	
Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val
			100					105					110		
Lys	Gly	Ala	Leu	Trp	Lys	Val	Leu	Gly	Arg	Gly	Thr	Asp			
		115					120					125			

<210> 2368

<211> 258  
 <212> PRT  
 <213> Mus musculus

<400> 2368

Trp	Thr	Ser	Gly	Leu	Arg	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Gln	Leu
1				5					10					15	
Ala	Leu	Val	Glu	Ile	Cys	Phe	Ser	Leu	Asp	Val	Ala	Pro	Arg	Leu	Leu
			20					25					30		
Val	Thr	Leu	Leu	Gln	Pro	Gly	Arg	Gly	Val	Ser	Pro	Thr	Ser	Cys	Ala
		35				40						45			
Leu	Gln	Leu	Leu	Leu	Val	Leu	Ser	Cys	Val	Thr	Ser	Glu	Cys	Phe	Leu
		50				55					60				
Leu	Met	Val	Met	Ala	Trp	Asp	Arg	Phe	Leu	Ala	Ile	Cys	Arg	Pro	Leu
65				70						75					80
Arg	Tyr	Gly	Ala	Ile	Met	Ser	Pro	Gln	Leu	Cys	Tyr	Leu	Leu	Ala	Thr
			85						90					95	
Thr	Cys	Trp	Leu	Ala	Gly	Ile	Pro	Val	Ala	Leu	Val	Phe	Thr	Ile	Trp
			100					105					110		
Leu	Phe	Asn	Phe	Pro	Phe	Cys	Gly	Pro	Arg	Gly	Ile	Arg	His	Phe	Phe
		115					120					125			
Cys	Asp	Ile	Ala	Pro	Leu	Leu	Ser	Leu	Val	Cys	Ala	Asp	Thr	Arg	Val
	130					135					140				
Phe	Glu	Ala	Asn	Val	Phe	Val	Ala	Thr	Val	Leu	Val	Ile	Met	Val	Pro
145					150					155					160
Phe	Cys	Leu	Ile	Ala	Thr	Ser	Tyr	Val	Met	Ile	Leu	Val	Ala	Val	Leu
				165					170					175	
Arg	Met	Pro	Ser	Ala	Ser	Gly	Arg	His	Lys	Ala	Leu	Ser	Thr	Cys	Ala
			180					185					190		
Ser	His	Leu	Ile	Val	Val	Ile	Leu	Phe	Tyr	Gly	Thr	Thr	Gly	Val	Ile
		195					200					205			
His	Leu	Arg	Pro	Lys	Ala	Ser	Tyr	Ser	Pro	Glu	Ser	Lys	Gln	Val	Val
	210					215					220				
Ser	Leu	Ser	Tyr	Thr	Met	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr
225					230					235					240
Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ala	Ala	Phe	Gly	Arg	Val	Cys	Cys
			245						250					255	

Gly Arg

<210> 2369  
 <211> 233  
 <212> PRT  
 <213> Mus musculus

<400> 2369

Pro	Gln	Met	Leu	Ala	Ile	Phe	Trp	Phe	Arg	Val	Leu	Phe	Leu	Ala	Phe
1				5					10					15	
Asp	Ala	Cys	Leu	Ala	Gln	Leu	Phe	Phe	Ile	His	Ile	Leu	Gln	Gly	Met
			20					25					30		
Glu	Ser	Gly	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Ile	Ala	Ile
		35				40						45			
Cys	Asp	Pro	Leu	Arg	His	Thr	Ser	Ile	Leu	Lys	Pro	Ser	Ile	Leu	Gly
	50					55					60				
Arg	Met	Ile	Val	Val	Val	Val	Ile	Gln	Ala	Val	Val	Leu	Val	Gly	Leu
65					70					75					80

Leu	Pro	Ile	Leu	Ile	Lys	Arg	Leu	His	His	Phe	Gln	Ser	Ile	Gln	Ile
				85					90					95	
Ala	His	Ser	Tyr	Cys	Glu	His	Met	Thr	Val	Val	Lys	Leu	Ala	Ala	Asn
			100					105					110		
Arg	Val	Gln	Val	Asn	Lys	Ile	Cys	Gly	Leu	Phe	Val	Gly	Leu	Ser	Val
		115					120					125			
Leu	Gly	Phe	Asp	Met	Phe	Phe	Ile	Leu	Ile	Ser	Tyr	Ala	Leu	Ile	Phe
	130					135					140				
Ala	Val	Phe	His	Leu	Lys	Gln	Lys	Glu	Ala	Arg	Leu	Lys	Ala	Phe	Asn
145					150					155					160
Thr	Cys	Thr	Ala	His	Ile	Phe	Val	Phe	Leu	Glu	Phe	Tyr	Ile	Leu	Ala
				165					170					175	
Phe	Phe	Ser	Phe	Leu	Ser	His	Arg	Leu	Gly	His	Val	Val	Pro	Ser	Thr
			180					185					190		
His	Ile	Leu	Leu	Ser	Thr	Ile	Tyr	Leu	Leu	Leu	Pro	Pro	Ala	Leu	Asn
		195					200					205			
Pro	Ile	Val	Tyr	Gly	Val	Lys	Ser	Met	Val	Ile	Lys	Arg	Val	Ala	Gln
	210					215					220				
Ile	Phe	Phe	Leu	Asp	His	Ala	His	Gln							
225					230										

<210> 2370  
 <211> 180  
 <212> PRT  
 <213> Mus musculus

<400> 2370															
Met	Leu	Ser	Ser	Leu	Lys	Thr	Asn	Asn	Val	Thr	Tyr	Leu	Asn	Pro	Gly
1				5					10					15	
Thr	Val	Ile	Leu	Ile	Gly	Ile	Pro	Gly	Leu	Glu	His	Val	Gln	Phe	Trp
		20						25					30		
Ile	Gly	Phe	Pro	Phe	Phe	Thr	Val	Cys	Leu	Val	Ala	Leu	Leu	Gly	Asn
	35					40						45			
Ile	Ile	Leu	Leu	Ile	Ile	Ile	Pro	Ala	Glu	His	Ser	Leu	His	Gln	Pro
	50				55						60				
Met	Tyr	Ile	Phe	Leu	Ala	Val	Leu	Ala	Ala	Thr	Asp	Ile	Gly	Leu	Cys
65					70					75					80
Ala	Ala	Ile	Ala	Pro	Lys	Met	Leu	Ala	Ile	Phe	Trp	Phe	Arg	Ala	Tyr
				85					90					95	
Ser	Met	Ala	Phe	Asp	Ala	Cys	Leu	Ala	Gln	Leu	Phe	Phe	Ile	His	Thr
			100					105					110		
Leu	Gln	Gly	Met	Glu	Ser	Gly	Ile	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg
		115					120					125			
Tyr	Ile	Ala	Ile	Cys	Asp	Pro	Leu	Arg	His	Thr	Ser	Ile	Leu	Thr	Pro
	130					135					140				
Leu	Leu	Gly	Arg	Met	Ile	Val	Val	Val	Val	Ile	Arg	Ala	Val	Val	Leu
145					150					155					160
Val	Gly	Leu	Leu	Pro	Ile	Val	Ile	Lys	Arg	Leu	His	His	Phe	Arg	Ser
				165					170					175	
Ile	Gln	Ile	Ala												
			180												

<210> 2371  
 <211> 312  
 <212> PRT

<213> Mus musculus

<400> 2371

```
Ile Glu Lys His Asn Leu Thr Met Val Thr Glu Phe Ile Leu Val Gly
 1          5          10          15
Ile Thr Asp His Pro Glu Leu Gln Ala Pro Leu Phe Gly Leu Phe Leu
 20          25          30
Leu Ile Tyr Leu Ile Ser Leu Ile Gly Asn Leu Gly Met Ile Ile Phe
 35          40          45
Thr Met Val Asn Ser Arg Leu Lys Thr Pro Met Tyr Phe Phe Leu Arg
 50          55          60
His Leu Ala Thr Thr Val Leu Gly Tyr Ser Thr Ala Val Gly Pro Lys
 65          70          75          80
Met Leu Gln Asn Phe Leu Val Asp Gln Asn Thr Ile Ser Phe His Leu
 85          90          95
Cys Ala Ile Gln Leu Ser Phe Phe Ser Met Phe Ile Ala Cys Glu Ile
 100         105         110
Tyr Ile Leu Ser Ala Met Ser Tyr Asp His Tyr Val Ala Ile Cys Lys
 115         120         125
Pro Leu Phe Tyr Met Val Ile Met Ser Lys Arg Leu Cys Trp Val Leu
 130         135         140
Val Val Ile Pro Tyr Val Tyr Cys Thr Ile Val Ala Leu Leu Ile Thr
 145         150         155         160
Ile Lys Ile Phe Thr Leu Ser Phe Cys Gly Ser Asn Val Ile Ser His
 165         170         175
Phe Tyr Cys Asp Ser Leu Pro Leu Leu Ser Leu Val Cys Ser Asn Thr
 180         185         190
Gln Glu Ile Glu Val Val Leu Leu Tyr Leu Ser Ala Phe Asn Leu Ile
 195         200         205
Ser Ser Leu Leu Leu Val Leu Val Ser Tyr Leu Leu Ile Leu Ile Ala
 210         215         220
Ile Leu Arg Met Asn Ser Ala Glu Gly Arg Arg Lys Ala Phe Ser Thr
 225         230         235         240
Gly Ser His Leu Thr Met Val Thr Val Phe Tyr Gly Thr Leu Ile Phe
 245         250         255
Met Tyr Met Gln Pro Lys Ser Asn His Ser Phe Asp Thr Asp Lys Val
 260         265         270
Ala Ser Ile Phe Tyr Thr Met Val Ile Pro Met Phe Asn Pro Leu Ile
 275         280         285
Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Leu Leu Arg Thr Trp
 290         295         300
Lys Lys Lys Tyr Met Val Phe Phe
 305         310
```

<210> 2372

<211> 314

<212> PRT

<213> Mus musculus

<400> 2372

```
Met Gly Gln Gln Asn Thr Thr Ser Leu Pro Gly Phe Ile Leu Met Gly
 1          5          10          15
Ile Thr Gln Arg Thr Glu Leu Gln Leu Pro Leu Phe Gly Ala Phe Phe
 20          25          30
Ile Ile Tyr Ala Val Thr Val Met Gly Asn Leu Gly Met Ile Ile Leu
 35          40          45
```

Thr	Lys	Leu	Asp	Ser	His	Leu	Glu	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Arg
50						55					60				
His	Leu	Ala	Phe	Ile	Asp	Leu	Gly	Asn	Ser	Thr	Val	Ile	Cys	Pro	Lys
65					70					75					80
Met	Leu	Val	Asp	Phe	Val	Met	Asn	Asp	Lys	Thr	Ile	Ser	Phe	Cys	Glu
				85					90					95	
Cys	Ala	Thr	Gln	Leu	Ser	Phe	Leu	Pro	Val	Met	Phe	Ile	Ile	Thr	Glu
			100					105					110		
Phe	Phe	Ile	Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125			
Asn	Pro	Leu	Leu	Tyr	Ser	Val	Ile	Met	Ser	Gln	Arg	Leu	Cys	His	Val
	130					135					140				
Leu	Val	Gly	Ile	Pro	Tyr	Leu	Tyr	Ser	Thr	Val	Gln	Ala	Leu	Leu	Val
145					150					155					160
Thr	Ser	Arg	Ile	Phe	Thr	Ser	Thr	Phe	Cys	Gly	Ser	Asn	Ile	Ile	Ser
				165					170					175	
His	Phe	Tyr	Cys	Asp	Gly	Ile	Phe	Leu	Leu	Pro	Met	Leu	Cys	Ser	Asn
			180					185					190		
Ala	Glu	Glu	Ile	Gln	Leu	Val	Ile	Ile	Ser	Phe	Ser	Ala	Leu	Asn	Leu
		195					200					205			
Ile	Ser	Ser	Phe	Leu	Val	Val	Leu	Gly	Ser	Tyr	Val	Leu	Ile	Leu	Ile
	210					215					220				
Ala	Ile	Cys	Arg	Met	His	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val	Val	Val	Phe	Tyr	Gly	Thr	Leu
				245					250					255	
Phe	Phe	Met	Tyr	Leu	Gln	Pro	Lys	Ser	Thr	Asp	Ser	Leu	Glu	Asn	Asp
		260					265						270		
Lys	Ile	Ala	Ser	Val	Phe	Tyr	Thr	Leu	Val	Ile	Pro	Met	Leu	Asn	Pro
	275						280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asn	Ala	Phe	Tyr	Arg
	290					295					300				
Val	Leu	Lys	Gly	Gln	Phe	Lys	Ile	Asn	Thr						
305					310										

<210> 2373

<211> 305

<212> PRT

<213> Mus musculus

<400> 2373

Met	Glu	Leu	Asn	Arg	Thr	Gln	Leu	Thr	Glu	Phe	Val	Leu	Arg	Gly	Ile
1				5					10					15	
Thr	Asp	Arg	Ser	Glu	Leu	Gln	Val	Pro	Leu	Phe	Leu	Val	Phe	Phe	Leu
			20					25					30		
Ile	Tyr	Val	Ile	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Phe	Val	Ile
		35					40					45			
Trp	Lys	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Gly	Asn
	50					55				60					
Leu	Ala	Phe	Ala	Asp	Ala	Cys	Asn	Ser	Ser	Ser	Val	Thr	Pro	Lys	Met
65					70					75					80
Leu	Met	Lys	Phe	Leu	Asn	Lys	Asn	Asp	Met	Ile	Ser	Met	Gly	Glu	Cys
				85					90					95	
Phe	Ala	Gln	Phe	Tyr	Phe	Phe	Cys	Ser	Ser	Val	Thr	Ala	Glu	Ala	Phe
		100						105					110		
Ile	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro





Ser	Ile	Asn	Tyr	Leu	Met	Leu	Phe	Ile	Phe	Ser	Gly	Ser	Ile	Gln	Val
		195					200					205			
Phe	Thr	Ile	Thr	Thr	Ile	Leu	Val	Ser	Tyr	Thr	Leu	Val	Leu	Phe	Ser
		210				215					220				
Ile	Leu	Lys	Gln	Lys	Ser	Leu	Lys	Ser	Ile	Lys	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Pro	Leu	Leu
			245						250					255	
Phe	Met	Tyr	Val	Arg	Pro	Ala	Ser	Pro	Gln	Val	Asn	Asp	Glu	Asp	Met
			260					265					270		

<210> 2375

<211> 156

<212> PRT

<213> Mus musculus

<400> 2375

Leu	Met	His	Thr	Leu	Leu	Ala	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asn	Asn
1				5					10					15	
Val	Ile	Leu	Asn	Phe	Phe	Cys	Asp	Leu	Phe	Val	Leu	Leu	Lys	Leu	Ala
			20					25					30		
Cys	Ser	Asp	Thr	Tyr	Val	Asn	Glu	Leu	Met	Ile	Phe	Ile	Met	Ser	Ser
		35					40					45			
Leu	Leu	Ile	Val	Ile	Pro	Phe	Phe	Leu	Ile	Val	Met	Ser	Tyr	Ala	Arg
	50					55				60					
Ile	Ile	Ala	Ser	Ile	Leu	Lys	Val	Pro	Ser	Ile	Gln	Gly	Ile	Tyr	Lys
65					70					75					80
Val	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Ser	Val	Val	Thr	Leu	Phe	Tyr
				85					90					95	
Gly	Thr	Ile	Ile	Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Gly	Asn	Asn	Ser	Thr
			100					105					110		
Val	Lys	Gly	Thr	Val	Met	Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met
		115				120						125			
Leu	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Arg	Ala
	130					135					140				
Leu	Ile	Arg	Val	Ile	Cys	Ser	Lys	Lys	Ile	Ser	Leu				
145					150					155					

<210> 2376

<211> 152

<212> PRT

<213> Mus musculus

<400> 2376

Met	Asp	Tyr	Leu	Asn	Thr	Ser	Ser	Glu	Glu	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	Trp	Pro	His	Leu	Glu	Pro	Ile	Leu	Phe	Ala	Phe	Ile	Ser
			20					25					30		
Met	Phe	Tyr	Ser	Leu	Thr	Leu	Phe	Gly	Asn	Thr	Val	Ile	Ile	Ile	Leu
		35					40					45			
Ser	Gln	Leu	Asp	Leu	Arg	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Cys
	50					55					60				
His	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Ala	Ser	Thr	Val	Pro	Gln
65					70					75					80
Leu	Leu	Val	Asn	Leu	Ser	Gly	Leu	Asp	Arg	Thr	Ile	Ser	Phe	Gly	Arg

				85					90					95			
Cys	Val	Ala	Gln	Leu	Phe	Ile	Met	Leu	Ser	Leu	Gly	Gly	Ile	Glu	Cys		
			100					105					110				
Val	Leu	Leu	Val	Ala	Met	Ala	Ile	Asp	Arg	Tyr	Ala	Ala	Val	Cys	Arg		
		115					120					125					
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Val	Leu	Cys	Arg	Ala	Leu		
	130					135					140						
Val	Val	Phe	Ser	Trp	Val	Gly	Gly										
145					150												

<210> 2377  
 <211> 191  
 <212> PRT  
 <213> Mus musculus

<400> 2377																	
Met	Ala	Leu	Arg	Asn	Ala	Ser	Ser	Val	Lys	Glu	Phe	Ile	Leu	Leu	Gly		
1				5					10					15			
Leu	Thr	Gln	Gln	Pro	Gly	Leu	Gln	Leu	Pro	Leu	Phe	Phe	Leu	Phe	Leu		
		20						25					30				
Gly	Ile	Tyr	Val	Val	Ser	Met	Leu	Gly	Asn	Leu	Gly	Leu	Ile	Val	Leu		
	35					40						45					
Ile	Val	Leu	Asn	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Phe		
	50					55					60						
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Tyr	Ser	Ser	Val	Ile	Thr	Pro	Arg		
65				70					75						80		
Met	Leu	Val	Gly	Phe	Val	Lys	Gln	Asn	Ile	Ile	Ser	His	Ala	Glu	Cys		
			85					90						95			
Leu	Thr	Gln	Leu	Phe	Phe	Phe	Ala	Phe	Phe	Val	Ile	Asp	Glu	Cys	Tyr		
		100					105						110				
Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys	Pro		
	115					120						125					
Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Gln	Val	Cys	Leu	Leu	Met	Thr		
	130					135					140						
Met	Gly	Val	Tyr	Val	Met	Gly	Leu	Ala	Gly	Ala	Leu	Ser	His	Ile	Val		
145				150					155						160		
Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Gly	Asn	Ile	Ile	Asn	His	Tyr		
		165						170						175			
Val	Cys	Asp	Val	Leu	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Thr	Ser	Thr			
		180						185						190			

<210> 2378  
 <211> 210  
 <212> PRT  
 <213> Mus musculus

<400> 2378																	
Met	Lys	Tyr	Leu	Asn	Thr	Ser	Ser	Glu	Asp	Gly	Phe	Ile	Leu	Val	Gly		
1				5				10						15			
Phe	Ser	Asp	Trp	Pro	His	Val	Glu	Pro	Ile	Leu	Phe	Ala	Ile	Ile	Ser		
		20						25					30				
Ile	Phe	Ser	Ser	Leu	Thr	Leu	Phe	Gly	Asn	Thr	Val	Ile	Thr	Ile	Leu		
	35					40						45					
Ser	Leu	Asp	Leu	His	Leu	His	Thr	Pro	Met	Tyr	Cys	Phe	Leu	Cys	His		
	50					55					60						

Leu	Ser	Phe	Leu	Asp	Leu	Cys	Tyr	Thr	Ala	Ser	Thr	Val	Pro	Gln	Leu
65					70					75					80
Leu	Val	Asn	Leu	Ser	Gly	Leu	Asp	Arg	Thr	Ile	Ser	Phe	Gly	Lys	Cys
			85						90					95	
Val	Ala	Gln	Leu	Cys	Ile	Val	Leu	Ser	Leu	Gly	Gly	Thr	Glu	Cys	Val
			100						105				110		
Leu	Leu	Val	Thr	Met	Ala	Ile	Asp	Cys	Tyr	Ala	Ala	Val	Cys	Arg	Pro
		115					120					125			
Leu	His	Tyr	Thr	Thr	Ile	Met	His	Pro	Val	Leu	Cys	Arg	Ala	Leu	Val
	130					135					140				
Val	Phe	Ser	Trp	Val	Gly	Gly	Leu	Val	Asn	Ser	Leu	Ile	Gln	Thr	Ser
145					150					155					160
Leu	Val	Met	Ala	Met	Pro	Leu	Cys	Gly	His	Gln	Leu	Asn	His	Phe	Phe
			165						170					175	
Cys	Glu	Leu	Pro	Val	Leu	Leu	Lys	Met	Ala	Cys	Glu	Asp	Thr	Gly	Gly
		180						185					190		
Thr	Glu	Val	Asn	Ser	Phe	Val	Ala	Arg	Val	Ile	Ile	Leu	Val	Cys	Pro
		195					200						205		
Leu	Leu														
	210														

<210> 2379  
 <211> 177  
 <212> PRT  
 <213> Mus musculus

Ser	His	Lys	Val	Cys	Trp	Leu	Leu	Val	Thr	Met	Thr	Tyr	Leu	Tyr	Cys
1				5					10				15		
Thr	Phe	Met	Ser	Leu	Val	Val	Thr	Ile	Asn	Ile	Phe	Ser	Leu	Ser	Phe
			20					25					30		
Cys	Gly	Tyr	Asn	Val	Ile	Asn	His	Phe	Phe	Cys	Asp	Cys	Ile	Pro	Leu
		35					40					45			
Ile	Ser	Leu	Leu	Cys	Ser	Asn	Thr	Gln	Glu	Val	Glu	Leu	Ile	Val	Met
	50					55					60				
Phe	Phe	Ala	Ala	Phe	Asp	Leu	Ile	Ser	Ser	Leu	Val	Val	Val	Leu	Met
65					70					75					80
Tyr	Tyr	Leu	Leu	Ile	Phe	Ile	Ala	Val	Leu	Arg	Met	Asn	Ser	Ala	Glu
			85						90					95	
Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Val	Val
			100					105					110		
Thr	Leu	Phe	Tyr	Gly	Thr	Leu	Ile	Phe	Met	Tyr	Val	Lys	Pro	Val	Ser
		115					120					125			
Ser	His	Ser	Ile	Asp	Thr	Glu	Lys	Ile	Ser	Ser	Ile	Leu	Tyr	Thr	Leu
	130						135					140			
Ile	Ile	Pro	Leu	Leu	Asn	Pro	Leu	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp
145					150					155					160
Val	Lys	Glu	Ala	Leu	Gln	Arg	Thr	Cys	Gln	Lys	Ile	Phe	Asn	Thr	Phe
				165					170					175	
Ser															

<210> 2380  
 <211> 129  
 <212> PRT

<213> Mus musculus

<400> 2380

```
Leu Asn Gln Leu Ser Gln Leu Thr Cys Ser Asp Ser Phe Ser Ser Gln
 1          5          10          15
Leu Ile Met Asn Leu Val Pro Val Leu Leu Ala Val Ile Ser Phe Ser
 20          25          30
Ser Ile Leu Tyr Ser Tyr Phe Lys Ile Val Ser Ser Ile Cys Ser Ile
 35          40          45
Ser Ser Val Gln Gly Lys Tyr Lys Ala Phe Ser Thr Cys Val Ser His
 50          55          60
Leu Ser Ile Val Ser Leu Phe Tyr Ser Thr Gly Leu Gly Val Tyr Val
 65          70          75          80
Ser Ser Val Val Ile Gln Ser Ser His Ser Ala Ala Arg Ala Ser Val
 85          90          95
Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe Ile Tyr Ser Leu
100          105          110
Arg Asn Lys Asp Val Lys Lys Ala Val Glu Arg Leu Leu Glu Gly Lys
115          120          125
Leu
```

<210> 2381

<211> 168

<212> PRT

<213> Mus musculus

<400> 2381

```
Met Ala Lys Asn Asn Ala Thr Thr Ile Asn Gly Phe Ile Leu Met Gly
 1          5          10          15
Phe Ser Asp His Pro Lys Glu Ile Pro Leu Leu Leu Val Phe Leu Ser
 20          25          30
Phe Tyr Leu Val Thr Met Leu Gly Asn Leu Gly Met Val Ile Phe Ile
 35          40          45
His Val Asp Val Gln Leu His Ile Pro Met Tyr Phe Phe Leu Ser His
 50          55          60
Leu Ser Val Leu Asp Ala Cys Tyr Thr Ser Val Ile Thr Pro Gln Ile
 65          70          75          80
Leu Ala Thr Leu Ala Thr Gly Lys Thr Val Ile Ser Tyr Gly Cys Cys
 85          90          95
Ala Thr Gln Phe Phe Phe Phe Thr Ile Tyr Ala Gly Thr Glu Cys Phe
100          105          110
Thr Asn Thr Phe Ser Leu Ser Phe Cys Glu Asn Gln Ser Ile Phe Phe
115          120          125
Phe Phe Tyr Asp Leu Pro Pro Leu Leu Lys Leu Ala Cys Ser Asp Thr
130          135          140
Ile Asn Met Val Glu Ile Ile Ile Val Phe Phe Gly Asn Phe Val Ile
145          150          155          160
Leu Ala Asn Tyr Cys Val Pro Leu
165
```

<210> 2382

<211> 109

<212> PRT

<213> Mus musculus

<400> 2382

```
Leu Val Leu Ala Phe His Ser Gln Tyr Arg Ser His Leu Ile Leu Tyr
 1          5          10          15
Leu Leu Ile Ile Arg Val Val Met Arg Met Lys Ser Ser Gly Arg Arg
          20          25          30
Ala Lys Thr Phe Ser Thr Cys Val Ser His Leu Thr Ala Val Ala Leu
          35          40          45
Leu Leu Gly Thr Leu Gly Phe Met Tyr Ile Arg Ser Gly Ser Glu Asp
          50          55          60
Lys Gly Met Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro
65          70          75          80
Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Phe Lys Lys
          85          90          95
Ile Thr Gly Lys Cys Gln Phe Ser His Ser Thr Gln His
          100          105
```

<210> 2383

<211> 194

<212> PRT

<213> Mus musculus

<400> 2383

```
Arg Tyr Val Ala Ile Cys Thr Pro Leu Arg Tyr Ala Ile Ile Ile Thr
 1          5          10          15
Pro Lys Leu Cys Thr Gln Leu Ser Thr Gly Ser Phe Thr Leu Gly Phe
          20          25          30
Leu Met Leu Leu Pro Glu Ile Val Trp Ile Ser Thr Leu Pro Phe Cys
          35          40          45
Gly Pro Asn Gln Ile His Gln Leu Phe Cys Asp Leu Glu Pro Met Leu
          50          55          60
Leu Leu Ala Cys Thr Asp Thr Ser Met Ile Leu Val Glu Asp Val Ile
65          70          75          80
His Ala Ile Ser Ile Leu Ser Cys Val Ser Ile Ile Ser Leu Ser Tyr
          85          90          95
Leu Arg Ile Ile Thr Val Val Leu Lys Ile Pro Ser Gly Glu Ser Arg
          100          105          110
Gln Lys Ala Phe Ser Thr Cys Thr Ala His Ile Thr Ile Phe Val Leu
          115          120          125
Phe Phe Gly Ser Val Ala Leu Met Tyr Leu Arg Phe Ser Val Thr Phe
          130          135          140
Gln Pro Leu Leu Glu Lys Val Ile Ala Leu Met Phe Ala Val Leu Ala
145          150          155          160
Pro Phe Phe Asn Pro Ile Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys
          165          170          175
Asp Ala Ile Lys Lys Met Phe Gly Ser Gln Lys Ile Leu Thr Val Ser
          180          185          190
Gly Ser
```

<210> 2384

<211> 164

<212> PRT

<213> Mus musculus

<400> 2384

Met	Thr	Ala	Arg	Asn	Met	Thr	Thr	Met	Ser	Gly	Phe	Leu	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	Asn	His	Glu	Leu	Gln	Ile	Leu	Gln	Ala	Leu	Leu	Phe	Leu
			20					25					30		
Val	Thr	Tyr	Leu	Leu	Gly	Ser	Ala	Gly	Asn	Phe	Ile	Ile	Ile	Thr	Ile
		35					40					45			
Thr	Thr	Leu	Asp	Pro	Gln	Leu	Gln	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Lys
	50					55					60				
His	Leu	Ser	Ile	Leu	Asp	Leu	Ser	Ser	Leu	Ser	Val	Thr	Ile	Pro	Gln
65					70					75				80	
Tyr	Val	Asp	Ser	Ser	Leu	Ala	Arg	Ser	Gly	Tyr	Ile	Ser	Tyr	Ala	Gln
			85						90					95	
Cys	Met	Leu	Gln	Ile	Phe	Phe	Phe	Ala	Ser	Phe	Ala	Trp	Gly	Glu	Leu
			100					105					110		
Gly	Thr	Leu	Thr	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Leu
	115					120						125			
Pro	Leu	His	Tyr	Glu	Val	Ile	Met	Ser	Pro	Arg	Lys	Cys	Thr	Trp	Ala
	130					135					140				
Val	Ala	Ala	Val	Trp	Leu	Ser	Gly	Arg	Tyr	Leu	Gly	Thr	Leu	Phe	Thr
145					150					155					160
Ala	Ser	Thr	Leu												

<210> 2385

<211> 106

<212> PRT

<213> Mus musculus

<400> 2385

Leu	Tyr	Gly	Gly	Ile	Asn	Phe	Leu	Leu	Thr	Leu	Leu	Ser	Tyr	Gly	Cys
1				5					10					15	
Ile	Ile	Ala	Ser	Ile	Leu	His	Met	Arg	Ser	Ala	Glu	Gly	Lys	Arg	Lys
			20					25					30		
Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Val	Val	Ser	Val	Tyr	Tyr
	35					40						45			
Ser	Ser	Leu	Phe	Cys	Ala	Tyr	Ile	Ser	Pro	Ala	Ser	Ser	Tyr	Ser	Pro
	50					55					60				
Glu	Arg	Ser	Lys	Phe	Thr	Ser	Phe	Phe	Tyr	Ser	Val	Leu	Ser	Pro	Thr
65					70					75				80	
Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Val	Lys	Leu	Ala
			85						90					95	
Leu	Arg	Arg	Leu	Leu	Pro	Ser	Leu	Ser	Asn						
			100					105							

<210> 2386

<211> 302

<212> PRT

<213> Mus musculus

<400> 2386

Glu	Lys	Lys	Asn	His	Thr	Val	Val	Ser	Glu	Phe	Leu	Phe	Gln	Gly	Phe
1				5					10					15	
Ser	Ser	Phe	Gln	Glu	Tyr	Lys	Phe	Thr	Leu	Phe	Met	Val	Phe	Leu	Thr
			20					25					30		

Leu	Tyr	Leu	Leu	Thr	Leu	Thr	Ser	Asn	Ala	Ile	Ile	Met	Ile	Ile	Ile	
	35						40					45				
Gly	Ile	Glu	Cys	His	Arg	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Met	
	50					55					60					
Ile	Ser	Thr	Ser	Glu	Thr	Val	Tyr	Thr	Leu	Val	Ile	Val	Pro	Ser	Met	
65					70					75					80	
Leu	Ala	Ser	Leu	Val	Gly	Ser	Ser	Gln	Ser	Ile	Ser	Leu	Ala	Gly	Cys	
				85				90						95		
Ala	Thr	Gln	Met	Phe	Val	Phe	Ile	Thr	Leu	Ala	Ile	Asn	Asn	Cys	Phe	
			100					105					110			
Leu	Leu	Thr	Ala	Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	
		115					120					125				
Leu	Arg	Ser	Ser	Val	Ile	Met	Asn	Lys	Arg	Val	Cys	Ala	Gln	Leu	Val	
	130					135					140					
Trp	Gly	Ser	Cys	Asn	Ile	Gly	Leu	Gln	Ile	Ala	Ser	Val	Phe	Arg	Ala	
145					150					155					160	
Pro	Phe	Cys	Asp	Arg	Glu	Val	Ala	His	Tyr	Phe	Cys	Asp	Pro	Val	Met	
			165						170					175		
Lys	Leu	Ser	Cys	Ala	Asp	Thr	Thr	Leu	His	Asp	Ile	Val	Asn	Phe	Ile	
		180						185					190			
Ile	Ser	Ser	Leu	Val	Ile	Val	Val	Pro	Met	Gly	Leu	Val	Phe	Ile	Ser	
		195					200					205				
Tyr	Ile	Leu	Ile	Ile	Ser	Thr	Ile	Leu	Lys	Ile	Ala	Ser	Ala	Glu	Gly	
	210					215					220					
Arg	Lys	Lys	Ala	Phe	Ala	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Ile	
225					230					235					240	
Ile	His	Tyr	Gly	Cys	Ala	Ser	Ile	Ala	Tyr	Leu	Lys	Pro	Lys	Ser	Glu	
			245					250						255		
Asn	Thr	Arg	Asp	Gln	Asp	Gln	Leu	Ile	Ser	Val	Thr	Tyr	Thr	Val	Phe	
		260					265						270			
Asn	Pro	Leu	Leu	Asn	Pro	Val	Val	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	
		275				280						285				
Lys	Asp	Ala	Ile	Tyr	Arg	Ala	Ile	Gly	Lys	Lys	Pro	Phe	Ala			
	290					295					300					

<210> 2387

<211> 238

<212> PRT

<213> Mus musculus

<400> 2387

Met	Glu	Pro	Tyr	Asn	Leu	Thr	Gly	Thr	Leu	Glu	Phe	Ile	Leu	Leu	Gly	
1				5					10					15		
Leu	Ser	Glu	Asp	Pro	Glu	Leu	Gln	Leu	Ile	Leu	Phe	Ala	Leu	Phe	Leu	
			20					25					30			
Leu	Ile	Tyr	Met	Leu	Thr	Val	Leu	Gly	Asn	Val	Leu	Ile	Ile	Leu	Ala	
		35					40					45				
Ile	Ser	Ser	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Tyr	
	50					55					60					
Asn	Leu	Ser	Leu	Ser	Asp	Met	Gly	Phe	Ser	Ser	Thr	Thr	Ile	Pro	Lys	
65					70					75					80	
Met	Leu	Ile	Asn	Leu	His	Ala	His	Asn	Arg	Ser	Ile	Thr	Tyr	Ala	Glu	
			85					90						95		
Cys	Leu	Thr	Gln	Val	Ser	Phe	Phe	Phe	Leu	Phe	Gly	Gly	Met	Asp	Ser	
			100					105					110			
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Trp	Val	Ala	Ile	Cys	His	



115	120	125
Pro Leu Tyr Tyr Gln Val Ile Leu Ser Pro Cys Leu Cys Arg Cys Leu		
130	135	140
Val Ile Val Ser Leu Phe Ile Ser Leu Val Ser Ser Gln Val His Cys		
145	150	155
Leu Leu Val Ser Gln Leu Thr Phe Cys Ile Asn Val Glu Ile Pro His		
165	170	175
Phe Phe Cys Asp Val Pro Glu Leu Val Lys Leu Ala Cys Ser Asn Thr		
180	185	190
Thr Ile Ser Asp Ile Val Ile Phe Leu Leu Gly Ile Ile Leu Gly Phe		
195	200	205
Leu Pro Ala Ser Gly Ile Phe Tyr Ser Tyr Tyr Lys Ile Thr Ser Ser		
210	215	220
Ile Phe Arg Val Pro Ser Leu Leu Gly Lys Tyr Lys Ala Phe		
225	230	235

<210> 2388  
 <211> 290  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (186)...(208)  
 <223> Any amino acid

<400> 2388

Met Arg Gly Asp Asn His Ser Cys Phe Trp Asp Thr Pro Lys Asp Phe		
1	5	10
Ile Leu Leu Gly Ile Ser Asp Arg Pro Trp Leu Glu Leu Pro Val Phe		
20	25	30
Ala Val Leu Leu Val Phe Tyr Ile Leu Ala Met Leu Gly Asn Ile Ser		
35	40	45
Ile Ile Leu Val Ser Gln Leu Asp Pro Gln Leu His Ser Pro Met Tyr		
50	55	60
Ile Phe Leu Ser His Leu Ser Phe Leu Asp Leu Cys Tyr Thr Thr Thr		
65	70	75
Thr Val Pro Gln Met Leu Phe Asn Met Gly Ser Ser Gln Lys Thr Ile		
85	90	95
Ser Tyr Gly Gly Cys Thr Val Gln Tyr Ala Ile Phe His Trp Leu Gly		
100	105	110
Cys Thr Glu Cys Val Val Leu Ala Ala Met Ala Leu Asp Arg Tyr Val		
115	120	125
Ala Ile Cys Glu Pro Leu Arg Tyr Ala Ile Ile Met His Arg Pro Leu		
130	135	140
Cys Gln Gln Leu Val Ala Met Ala Trp Leu Ser Gly Phe Gly Asn Ser		
145	150	155
Leu Val Gln Val Ile Leu Thr Val Gln Leu Pro Phe Cys Gly Arg Gln		
165	170	175
Val Leu Asn Asn Phe Phe Cys Glu Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa		
180	185	190
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Xaa		
195	200	205
Gly Arg His Lys Ala Phe Gly Thr Cys Ser Ser His Leu Leu Val Val		
210	215	220
Ser Leu Phe Tyr Leu Pro Ala Ile Tyr Met Tyr Leu Gln Pro Pro Ser		

225					230					235				240
Ser	Tyr	Ser	Gln	Glu	Gln	Gly	Lys	Phe	Ile	Ser	Leu	Phe	Tyr	Ser
				245					250					255
Ile	Thr	Pro	Thr	Leu	Asn	Pro	Phe	Ile	Tyr	Thr	Leu	Arg	Asn	Lys
			260					265					270	
Val	Lys	Gly	Ala	Leu	Arg	Arg	Leu	Leu	Ala	Arg	Thr	Gly	Arg	Leu
		275					280					285		
Gly	Arg													
	290													

<210> 2389  
 <211> 250  
 <212> PRT  
 <213> Mus musculus

<400> 2389														
Leu	Ser	Phe	Ile	Asp	Ile	Cys	Tyr	Ser	Ser	Ser	Ile	Ser	Pro	Arg
1				5					10					15
Leu	Ser	Asp	Phe	Leu	Lys	Thr	Glu	Lys	Thr	Ile	Ser	Phe	Ile	Ala
		20						25					30	Cys
Ala	Thr	Gln	Asn	Phe	Val	Leu	Ala	Trp	Met	Gly	Ala	Ser	Glu	Cys
		35					40					45		Cys
Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Gly	Ser
	50					55					60			Pro
Leu	Gln	Tyr	Ser	Ala	Ile	Met	Ala	Pro	Ser	Leu	Cys	Trp	Arg	Met
65					70					75				80
Ala	Gly	Val	Tyr	Gly	Ser	Gly	Phe	Phe	Ile	Ser	Phe	Val	Gln	Gln
				85					90					95
Ala	Cys	Phe	Asn	Leu	Tyr	Tyr	Cys	Gly	Pro	Asn	Val	Ile	Arg	His
			100					105					110	Phe
Phe	Cys	Asp	Ile	Pro	Gln	Ile	Ile	Pro	Leu	Ser	Cys	Ser	Asp	Pro
		115					120					125		Phe
Ile	Ser	Gln	Leu	Val	Leu	Phe	Leu	Ala	Ala	Leu	Phe	Val	Gly	Phe
	130					135					140			Gly
Ser	Phe	Leu	Val	Ile	Ile	Phe	Ser	Tyr	Val	Phe	Ile	Ala	Val	Ser
145					150					155				Ile
Leu	Lys	Val	Ala	Ser	Phe	Glu	Gly	Arg	Val	Lys	Ala	Phe	Lys	Thr
			165						170					Cys
Gly	Ser	His	Leu	Ala	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Gly	Leu
		180						185					190	Ser
Val	Tyr	Met	His	His	Ser	Ser	Gln	His	Ser	Thr	Lys	Gln	Asp	Lys
	195						200					205		Val
Leu	Ser	Val	Val	Tyr	Thr	Ile	Leu	Ile	Pro	Met	Val	Asn	Pro	Leu
	210					215					220			Ile
Tyr	Ser	Leu	Arg	Asn	Thr	Glu	Ile	Lys	Glu	Ala	Leu	Lys	Arg	Val
225					230				235					240
Lys	Lys	Ala	Ala	His	Leu	Pro	Gln	Lys	Ala					
				245					250					

<210> 2390  
 <211> 301  
 <212> PRT  
 <213> Mus musculus

<400> 2390

Met	Trp	Pro	Ser	Val	Ile	Ala	Ile	Tyr	Leu	Phe	Gly	Trp	Asp	Ser	Gln
1				5					10					15	
Val	Ser	Arg	Asp	Phe	Lys	Thr	Val	Phe	Leu	Phe	Pro	Val	Leu	Thr	Tyr
			20					25					30		
Met	Leu	Ser	Ile	Gly	Gly	Asn	Gln	Asn	Thr	Asp	Ala	Phe	Thr	Leu	His
	35					40					45				
Glu	Ser	His	Phe	Gln	Val	Pro	Met	His	Phe	Val	Phe	Arg	Ser	Phe	Ser
	50					55					60				
Phe	Leu	Glu	Ile	Ser	Leu	Thr	Ser	Thr	Phe	Ile	Pro	Gln	Leu	Leu	Phe
65					70					75					80
Ser	Val	Ser	Thr	Gly	Ile	Lys	Thr	Ile	Ser	Phe	Val	Gly	Cys	Phe	Ile
				85					90					95	
Ala	Ile	Phe	Phe	Gly	Thr	Thr	Glu	Ile	Trp	Thr	Leu	Thr	Ser	Met	Thr
			100					105					110		
Cys	Asp	Tyr	Tyr	Ile	Ala	Thr	Ser	Gln	Ser	Leu	His	Tyr	Ala	Thr	Ile
	115						120					125			
Met	Ser	Asn	Arg	Val	Cys	Thr	Leu	Leu	Ile	Pro	Cys	Ser	Cys	Leu	Ser
	130					135					140				
Cys	Phe	Leu	Ile	Ile	Phe	Leu	Pro	Ile	Ile	Leu	Thr	Ser	Gln	Leu	Asp
145					150					155					160
Phe	Cys	Ala	Ser	Asn	Val	Leu	Lys	His	His	Cys	Cys	Asp	Tyr	Gly	Thr
				165					170					175	
Leu	Ile	Glu	Ile	Ala	Cys	Ser	Ser	Thr	Arg	Leu	Met	Glu	Leu	Phe	Val
			180					185					190		
Phe	Phe	Leu	Val	Ile	Met	Thr	Leu	Arg	Val	Ala	Met	Val	Leu	Val	Ala
	195						200					205			
Leu	Ser	Tyr	Met	Cys	Ser	Ile	Arg	Thr	Ile	Pro	Lys	Ile	Pro	Ser	Ala
	210					215					220				
Gln	Arg	Lys	Lys	Ala	Phe	Cys	Ser	Ser	His	Thr	Leu	Val	Ile	Ser	Ile
225				230						235					240
Ser	Tyr	Arg	Ser	Cys	Ile	Phe	Met	Cys	Ile	Lys	Pro	Ser	Ser	Arg	Gly
				245					250					255	
Val	Val	Leu	Ser	Lys	Gly	Met	Ala	Val	Leu	Asn	Thr	Ser	Val	Ala	Pro
			260					265					270		
Leu	Leu	Asp	Leu	Phe	Ile	Tyr	Thr	Phe	Arg	Asn	Lys	Gln	Leu	Lys	Lys
	275						280					285			
Ser	Phe	Asn	Asp	Ile	Thr	Arg	Lys	Thr	Val	Ile	Leu	Gln			
	290					295					300				

<210> 2391  
 <211> 304  
 <212> PRT  
 <213> Mus musculus

<400> 2391

Phe	Thr	Glu	Val	Ile	Glu	Phe	Val	Phe	Leu	Gly	Phe	Ser	Ser	Phe	Gly
1				5					10					15	
Lys	His	Gln	Ile	Thr	Leu	Phe	Val	Val	Phe	Leu	Thr	Ile	Tyr	Ile	Leu
			20					25					30		
Thr	Leu	Ala	Gly	Asn	Ile	Ile	Ile	Val	Thr	Ile	Thr	His	Ile	Asp	His
	35					40						45			
His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Met	Leu	Ala	Ser	Ser
	50					55					60				
Glu	Thr	Val	Tyr	Thr	Leu	Val	Ile	Val	Pro	Arg	Met	Leu	Ser	Ser	Leu
65					70					75					80
Ile	Phe	Tyr	Asn	Leu	Pro	Ile	Ser	Leu	Ala	Gly	Cys	Ala	Thr	Gln	Met



<210> 2393  
 <211> 115  
 <212> PRT  
 <213> Mus musculus

<400> 2393  
 Ile Leu Ile Phe Ser Ala Phe Asn Leu Leu Ser Ser Leu Leu Ile Val  
 1 5 10 15  
 Ile Gly Ser Tyr Leu Leu Ile Leu Met Thr Ile Leu Arg Ile Asn Ser  
 20 25 30  
 Ala Lys Gly Lys Trp Lys Ala Phe Ser Thr Cys Gly Ser His Leu Thr  
 35 40 45  
 Val Val Ile Val Phe Tyr Gly Thr Leu Ile Phe Met Tyr Leu Gln Pro  
 50 55 60  
 Thr Ser Thr His Ser Ile Asn Thr Val Lys Val Thr Ser Ile Phe Tyr  
 65 70 75 80  
 Thr Gln Val Ile Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn  
 85 90 95  
 Lys Asp Val Lys Asp Val Leu Lys Lys Thr Lys Glu Lys Val Tyr Asn  
 100 105 110  
 Leu Val Ser  
 115

<210> 2394  
 <211> 242  
 <212> PRT  
 <213> Mus musculus

<400> 2394  
 Met Glu Asp Met Ala Ala Gly Asn His Cys Thr Val Thr Glu Phe Phe  
 1 5 10 15  
 Leu Ala Gly Leu Ser Glu Lys Pro Glu Leu Gln Leu Pro Leu Phe Leu  
 20 25 30  
 Leu Phe Thr Gly Ile Tyr Leu Ile Thr Met Ala Gly Asn Leu Gly Met  
 35 40 45  
 Ile Thr Leu Ile Gly Leu Ser His Leu His Thr Pro Met Tyr Tyr  
 50 55 60  
 Phe Leu Ser Ser Leu Ser Phe Ile Asp Phe Cys Gln Ser Thr Val Val  
 65 70 75 80  
 Ile Pro Lys Met Leu Val Ser Phe Leu Thr Glu Met Asn Ile Ile Ser  
 85 90 95  
 Tyr Ser Glu Cys Met Ala Gln Leu Tyr Phe Phe Leu Thr Phe Gly Ile  
 100 105 110  
 Ala Glu Cys Tyr Thr Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala  
 115 120 125  
 Ile Cys Asn Pro Leu Leu Tyr Asn Val Thr Met Ser Tyr Gln Ile Tyr  
 130 135 140  
 Ser Ser Leu Ile Ser Gly Val Tyr Ile Phe Ala Val Ile Cys Ser Ser  
 145 150 155 160  
 Phe Asn Thr Gly Phe Met Leu Arg Thr Gln Phe Cys Asn Leu Asp Val  
 165 170 175  
 Ile Asn His Tyr Phe Cys Asp Leu Leu Pro Leu Leu Asn Leu Ala Ser  
 180 185 190  
 Ser Asn Thr Tyr Ile Asn Glu Ile Leu Ile Leu Phe Phe Ala Thr Leu  
 195 200 205  
 Asn Ser Phe Val Pro Val Leu Thr Ile Ile Thr Ser Tyr Ile Phe Ile

210		215		220
Ile Val Thr Ile Leu Ser	Ile His Ser Arg Glu Gly Lys Phe Lys Ala			
225	230	235		240
Phe Ser				

<210> 2395  
 <211> 196  
 <212> PRT  
 <213> Mus musculus

<400> 2395

Met Ser Asn Ser Thr Leu Val Thr Glu Phe Met Leu Glu Asp Phe Ala															
1		5				10					15				
Glu Asn Trp Glu Leu Arg Ile Leu Leu Ser Val Leu Phe Leu Leu Val															
	20					25				30					
Tyr Leu Tyr Ser Leu Ile Gly Asn Leu Ile Ile Ile Ile Ala Thr Thr															
	35				40					45					
Val Asp Gln Thr Leu Asn Thr Pro Met Tyr Phe Phe Leu Arg Asn Leu															
	50			55					60						
Ser Ile Leu Asp Ile Cys Tyr Val Ser Val Thr Val Pro Asn Ala Cys															
65		70				75								80	
Ile Asn Ser Leu Thr Asp His Arg Asn Ile Ser Val Gly Gly Cys Ala															
	85					90							95		
Ala Gln Ile Phe Phe Val Tyr Ile Cys Ala Cys Val Glu Ile Leu Phe															
	100					105							110		
Leu Thr Ile Met Ala Gln Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu															
	115				120								125		
Leu Tyr Pro Val Ile Met Asn His Trp Phe Cys Val Gln Met Thr Leu															
	130				135					140					
Ala Ser Leu Leu Ser Ser Leu Val Leu Ala Ser Val His Thr Phe Lys															
145		150				155								160	
Thr Phe Gln Leu Ser Phe Cys His Ser Asn Val Val Pro Gln Phe Phe															
	165					170							175		
Cys Asp Ile Pro Ser Leu Leu Arg Leu Tyr Leu Leu Leu Ile Pro Leu															
	180					185						190			
Ile Thr Asn Ser															
	195														

<210> 2396  
 <211> 177  
 <212> PRT  
 <213> Mus musculus

<400> 2396

Met Ala Ser His Asn Phe Thr Met Val Thr Glu Phe Ile Leu Val Ala															
1		5						10					15		
Asn Thr Asp Cys Pro Glu Leu Gln Val Pro Leu Phe Gly Leu Phe Pro															
	20						25					30			
Ile Ile Tyr Leu Ile Ile Leu Val Gly Asn Leu Gly Met Ile Ile Leu															
	35				40					45					
Thr Met Val Asp Ser Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg															
	50				55				60						
His Leu Ala Thr Thr Tyr Ser Thr Ala Val Gly Pro Lys Met Leu Arg															
65		70						75						80	

Asn	Phe	Leu	Val	Glu	Gln	Asn	Lys	Lys	Leu	Phe	Tyr	Asp	Cys	Ala	Phe	
				85					90					95		
Gln	Ser	Ser	Phe	Ser	Ser	Leu	Leu	Val	Asn	Phe	Phe	Ile	Leu	Tyr		
			100				105					110				
Ala	Ile	Phe	Tyr	Asp	Cys	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	Asn	Tyr	
		115					120					125				
Asn	Val	Ile	Met	Ser	Gln	Arg	Leu	Cys	Trp	Ile	Leu	Val	Ala	Val	Pro	
	130					135					140					
Tyr	Leu	Tyr	Ser	Ile	Phe	Val	Ala	Leu	Ile	Val	Thr	Ile	Asn	Ile	Phe	
145					150					155					160	
Pro	Ser	Ser	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asn	His	Phe	Phe	Tyr	Asn	
				165					170					175		
Gly																

<210> 2397  
 <211> 215  
 <212> PRT  
 <213> Mus musculus

<400> 2397																
Met	Phe	Phe	Val	Ala	Ser	Met	Met	Gly	Asn	Ser	Leu	Ile	Val	Phe	Thr	
1				5					10					15		
Val	Ala	Ser	Asp	Pro	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala	
			20					25					30			
Asn	Leu	Ser	Phe	Ile	Asp	Leu	Gly	Val	Ser	Ser	Val	Ser	Ser	Pro	Lys	
		35					40					45				
Met	Leu	Tyr	Asp	Leu	Phe	Arg	Lys	His	Lys	Val	Ile	Ser	Phe	Thr	Gly	
	50					55					60					
Cys	Val	Thr	Gln	Ile	Phe	Phe	Ile	His	Val	Ile	Gly	Gly	Val	Glu	Met	
65					70					75					80	
Val	Leu	Leu	Ile	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	
				85					90					95		
Pro	Leu	His	Tyr	Leu	Thr	Ile	Met	Ser	Pro	Arg	Thr	Cys	Ile	Leu	Phe	
			100					105					110			
Ser	Val	Thr	Ala	Trp	Val	Val	Gly	Leu	Met	His	Ser	Leu	Ile	Gln	Leu	
		115					120					125				
Ala	Phe	Val	Val	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Val	Leu	Asp	Ser	
	130					135					140					
Phe	Tyr	Cys	Asp	Leu	Pro	Arg	Phe	Ile	Lys	Leu	Ala	Cys	Ile	Asp	Thr	
145					150					155					160	
Asn	Gln	Leu	Glu	Phe	Met	Val	Thr	Val	Asn	Ser	Gly	Phe	Ile	Ser	Val	
			165						170					175		
Gly	Ser	Phe	Phe	Ile	Leu	Ile	Ile	Ser	Tyr	Ile	Val	Ile	Ile	Ile	Ser	
			180					185					190			
Val	Gln	Lys	His	Ser	Ser	Gly	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Leu	
		195					200					205				
Ser	Ala	His	Ile	Thr	Val	Val										
	210					215										

<210> 2398  
 <211> 158  
 <212> PRT  
 <213> Mus musculus

<400> 2398

Met	Pro	Ser	Arg	Ser	Val	Leu	Gly	Asp	Gly	Asn	His	Thr	Ser	Val	Ala
1				5					10					15	
Met	Phe	Val	Leu	Leu	Gly	Leu	Leu	Asp	Gln	Ala	Glu	Leu	Gln	Leu	Ile
		20						25					30		
Leu	Phe	Pro	Val	Phe	Leu	Gly	Thr	Tyr	Leu	Ile	Thr	Leu	Ile	Trp	Asn
		35					40					45			
Leu	Gly	Leu	Ile	Ile	Leu	Ile	Arg	Met	Asp	Ser	His	Leu	Gln	Thr	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Ser	Phe	Leu	Ser	Phe	Ile	Asp	Ile	Cys	Tyr	Ser
65					70					75					80
Ser	Ser	Ile	Ser	Pro	Arg	Met	Leu	Ser	Asp	Phe	Leu	Lys	Ala	Glu	Lys
				85					90					95	
Thr	Ile	Ser	Phe	Ile	Ala	Cys	Ala	Thr	Gln	Tyr	Phe	Val	Met	Ala	Trp
			100					105					110		
Met	Gly	Ala	Ser	Glu	Cys	Cys	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg
	115						120					125			
Tyr	Val	Ala	Ile	Gly	Ser	Pro	Leu	Gln	Tyr	Ser	Val	Ile	Met	Ala	Pro
	130					135					140				
Ser	Leu	Cys	Trp	Arg	Met	Val	Ala	Gly	Val	Tyr	Arg	Ser	Gly		
145					150					155					

<210> 2399

<211> 139

<212> PRT

<213> Mus musculus

<400> 2399

Met	Pro	Ser	Ile	Ser	Val	Leu	Gly	Asp	Gly	Asn	His	Thr	Ser	Val	Ala
1				5					10					15	
Met	Phe	Val	Leu	Leu	Gly	Leu	Leu	Asp	Gln	Ala	Glu	Leu	Gln	Leu	Ile
		20						25					30		
Leu	Phe	Pro	Val	Phe	Leu	Gly	Thr	Tyr	Leu	Ile	Thr	Leu	Ile	Trp	Asn
		35					40					45			
Leu	Gly	Leu	Ile	Ile	Leu	Ile	Arg	Met	Asp	Ser	His	Leu	Gln	Thr	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Ser	Phe	Leu	Ser	Phe	Ile	Asp	Ile	Cys	Tyr	Ser
65					70					75					80
Ser	Ser	Ile	Ser	Pro	Arg	Met	Leu	Ser	Asp	Phe	Leu	Lys	Thr	Glu	Lys
				85					90					95	
Thr	Ile	Ser	Phe	Ile	Ala	Cys	Ala	Thr	Gln	Asn	Phe	Val	Leu	Asp	Trp
			100					105					110		
Met	Gly	Thr	Ser	Glu	Cys	Cys	Leu	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg
	115						120					125			
Tyr	Val	Ala	Ile	Gly	Ser	Pro	Leu	Gln	Tyr	Ser					
	130					135									

<210> 2400

<211> 157

<212> PRT

<213> Mus musculus

<400> 2400

Arg	Thr	Lys	Asn	His	Thr	Val	Val	Thr	Glu	Phe	Ile	Leu	Met	Gly	Ile
1				5					10					15	



Thr	Asp	His	Pro	Asp	Leu	Gln	Pro	Ser	Leu	Phe	Gly	Leu	Phe	Leu	Leu
			20					25					30		
Ile	Tyr	Leu	Ile	Ser	Leu	Val	Gly	Asn	Leu	Gly	Met	Ile	Ile	Leu	Thr
		35					40					45			
Met	Val	Asp	Ser	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Gln
	50					55					60				
Leu	Ala	Thr	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly	Pro	Lys	Met
65					70					75					80
Leu	Thr	Asn	Phe	Ile	Val	Asp	Gln	Asn	Arg	Ile	Phe	Phe	Asn	Leu	Cys
				85					90					95	
Thr	Thr	Gln	Leu	Ala	Phe	Phe	Leu	Leu	Phe	Ile	Ala	Cys	Glu	Leu	Phe
			100					105					110		
Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro
		115					120					125			
Leu	Phe	Tyr	Met	Val	Ile	Met	Ser	Lys	Arg	Leu	Cys	Trp	Val	Leu	Val
	130					135					140				
Val	Met	Pro	Leu	Cys	Leu	Leu	Tyr	Asn	Cys	Gly	Cys	Phe			
145					150					155					

<210> 2401  
 <211> 194  
 <212> PRT  
 <213> Mus musculus

<400> 2401

Phe	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Arg	Pro
1				5					10					15	
Leu	His	Tyr	Pro	Ser	Leu	Met	Thr	Gly	Arg	Leu	Arg	Asn	Thr	Leu	Val
			20					25					30		
Thr	Ser	Cys	Trp	Val	Leu	Gly	Phe	Leu	Trp	Phe	Pro	Val	Pro	Ile	Ile
		35					40					45			
Ile	Ile	Ser	Gln	Met	Ser	Phe	Cys	Gly	Ser	Arg	Ile	Ile	Asp	His	Phe
	50					55					60				
Leu	Cys	Asp	Pro	Gly	Pro	Leu	Leu	Ala	Leu	Ala	Cys	Ser	Arg	Val	Pro
65					70				75						80
Leu	Ile	Glu	Val	Phe	Trp	Ser	Ile	Ile	Met	Ser	Met	Leu	Leu	Val	Ile
				85					90					95	
Pro	Phe	Leu	Phe	Ile	Met	Gly	Thr	Tyr	Ile	Leu	Val	Leu	Arg	Ala	Val
			100					105					110		
Phe	Arg	Leu	Pro	Ser	Arg	Glu	Gly	Gln	Lys	Lys	Ala	Phe	Ser	Thr	Cys
		115					120					125			
Gly	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr	Cys	Ser	Val	Met	Ile
	130					135					140				
Met	Tyr	Leu	Ser	Pro	Thr	Ser	Glu	His	Glu	Ala	Gly	Met	Gln	Lys	Leu
145					150					155					160
Val	Thr	Leu	Phe	Tyr	Ser	Val	Gly	Thr	Pro	Leu	Leu	Asn	Pro	Met	Ile
			165						170					175	
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Asn	Ala	Leu	Gln	Lys	Ile	Leu
			180					185					190		

Arg Thr

<210> 2402  
 <211> 179  
 <212> PRT

<213> Mus musculus

<400> 2402

Phe	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	
1				5					10					15		
Pro	Leu	Leu	Tyr	Pro	Val	Met	Met	Ser	Asn	Ser	Leu	Cys	Met	Lys	Phe	
			20					25					30			
Ile	His	Val	Ser	Tyr	Ile	Val	Gly	Phe	Leu	His	Ser	Ala	Ile	His	Val	
		35					40					45				
Gly	Leu	Leu	Val	Arg	Leu	Asn	Phe	Cys	Lys	Ser	Asn	Ile	Ile	His	Tyr	
	50					55					60					
Phe	Tyr	Cys	Glu	Ile	Leu	Gln	Leu	Phe	Lys	Ile	Ser	Cys	Ile	Asn	Pro	
65					70					75				80		
Thr	Met	Asn	Val	Leu	Leu	Val	Leu	Ile	Phe	Ser	Thr	Leu	Ile	Gln	Gly	
				85					90					95		
Leu	Thr	Phe	Met	Thr	Phe	Ile	Val	Ser	Tyr	Ser	Ser	Val	Ile	Phe	Pro	
			100					105					110			
Ile	Leu	Lys	Thr	Lys	Ser	Glu	Arg	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	
		115					120					125				
Cys	Ser	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Leu	Phe	
	130					135					140					
Leu	Met	Tyr	Val	His	Pro	Gly	Ser	Gly	Ser	Gly	Glu	Asp	Lys	Gly	Arg	
145					150					155					160	
Met	Tyr	Ser	Leu	Phe	Tyr	Thr	Ile	Ile	Ile	Leu	Phe	Leu	Asn	Pro	Phe	
				165					170					175		

Phe Ile Thr

<210> 2403

<211> 262

<212> PRT

<213> Mus musculus

<400> 2403

Thr	His	Ser	Cys	Thr	Leu	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Thr	Leu	Ser	
1				5					10					15		
Leu	Leu	Asp	Met	Ser	Tyr	Val	Thr	Thr	Met	Pro	Gln	Met	Leu	Val	His	
			20					25					30			
Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser	Phe	Ala	Gly	Cys	Cys	Leu	Gln	
		35					40					45				
Met	Tyr	Val	Phe	Gly	Ala	Leu	Gly	Met	Thr	Glu	Cys	Thr	Phe	Phe	Val	
	50					55					60					
Val	Met	Ala	Tyr	His	Arg	Tyr	Val	Ala	Ile	Cys	Pro	Leu	Pro	Tyr	Thr	
65					70					75				80		
Val	Ile	Leu	Asn	Trp	Gly	Leu	Cys	Met	Arg	Leu	Ala	Ala	Gly	Ser	Trp	
				85					90					95		
Ile	Cys	Gly	Phe	Phe	Ser	Ser	Leu	Leu	His	Thr	Phe	Phe	Thr	Met	Ser	
			100					105					110			
Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Arg	Val	Asn	His	Tyr	Leu	Cys	Glu	Gly	
		115					120					125				
Pro	Ser	Val	Arg	Ser	Leu	Val	Cys	Met	Asp	Thr	His	Phe	Val	Glu	Met	
	130					135						140				
Val	Asp	Leu	Val	Leu	Ser	Val	Phe	Leu	Val	Val	Ile	Pro	Ile	Ser	Leu	
145					150					155					160	
Ile	Val	Ala	Ser	Tyr	Ile	His	Ile	Ala	Met	Ala	Ile	Leu	Lys	Ile	Lys	
				165					170					175		

Ser	Thr	Glu	Gly	Arg	Cys	Lys	Ser	Phe	Ser	Thr	Cys	Ala	Ser	Leu	Leu
			180					185					190		
Thr	Val	Val	Thr	Leu	Phe	Tyr	Ile	Ser	Ala	Thr	Tyr	Asn	Tyr	Met	Arg
		195					200					205			
Pro	Asn	Ser	Ser	Tyr	Ser	Pro	Glu	Asp	Lys	Gln	Ile	Ser	Leu	Phe	Tyr
	210					215					220				
Asn	Ala	Phe	Thr	Pro	Leu	Leu	Asn	Pro	Val	Ala	Tyr	Ser	Leu	Arg	Asn
225					230					235					240
Lys	Asn	Ile	Lys	Arg	Ala	Phe	Leu	Lys	Val	Ile	Ser	Tyr	Ser	Arg	Trp
				245					250					255	
Ala	Gly	Gly	Pro	Gly	Trp										
			260												

<210> 2404  
 <211> 225  
 <212> PRT  
 <213> Mus musculus

<400> 2404															
Met	Glu	Gln	Ser	Asn	Asp	Thr	Lys	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10				15		
Phe	Ala	Gly	Gln	His	Lys	Ser	Trp	His	Ile	Leu	Phe	Ile	Ile	Phe	Leu
		20						25					30		
Met	Ile	Tyr	Val	Val	Thr	Leu	Met	Gly	Asn	Ile	Gly	Met	Ile	Val	Leu
	35						40					45			
Ile	Lys	Ile	Asp	Ser	Ser	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln
	50					55					60				
His	Leu	Ala	Phe	Val	Asp	Leu	Cys	Tyr	Thr	Ser	Ala	Ile	Thr	Pro	Lys
65					70					75					80
Met	Leu	Lys	Asn	Phe	Thr	Glu	Thr	Lys	Ala	Ser	Ile	Ser	Phe	Ile	Gly
			85						90					95	
Cys	Met	Leu	Gln	Leu	Leu	Ala	Tyr	Gly	Thr	Phe	Ala	Thr	Ile	Asp	Cys
		100						105					110		
Phe	Ile	Leu	Ala	Ala	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn
	115						120					125			
Pro	Leu	Arg	Tyr	Pro	Ile	Val	Met	Ser	Gln	Arg	Leu	Cys	Ile	Leu	Leu
	130					135					140				
Leu	Val	Gly	Ser	Tyr	Thr	Met	Gly	Phe	Leu	Asn	Ala	Ser	Val	Asn	Thr
145					150					155					160
Ser	Phe	Thr	Phe	Ser	Leu	Lys	Phe	Cys	Lys	Ser	Asn	Ala	Ile	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Glu	Pro	Pro	Ile	Leu	Ala	Leu	Ser	Cys	Ser	Ser	Ile
			180					185					190		
Asp	Phe	Ser	Ile	Met	Leu	Leu	Thr	Val	Phe	Val	Gly	Phe	Asn	Leu	Val
	195						200					205			
Glu	Thr	Val	Leu	Val	Val	Ile	Phe	Ser	Tyr	Ile	Tyr	Ile	Leu	Ser	Ala
	210					215					220				
Ile															
225															

<210> 2405  
 <211> 155  
 <212> PRT  
 <213> Mus musculus

Leu 1	Met	Leu	Phe	Leu 5	Lys	Leu	Asp	Phe	Cys 10	Ala	Ser	Asn	Val	Ile 15	Asp
His	Phe	Cys	Cys 20	Asp	Tyr	Phe	Pro	Ile 25	Leu	Gln	Leu	Ser	Cys 30	Ser	Asp
Thr	Trp	Phe 35	Leu	Glu	Thr	Ile	Gly 40	Phe	Tyr	Phe	Ala	Phe 45	Ile	Thr	Leu
Leu	Phe 50	Thr	Leu	Ala	Leu	Val 55	Ile	Leu	Ser	Tyr	Ile 60	Cys	Ile	Ile	Asn
Thr 65	Ile	Leu	Arg	Phe 70	Pro	Ser	Ala	Ser	Gln	Arg 75	Lys	Lys	Ala	Phe 80	Ser
Thr	Cys	Ser	Ser 85	His	Met	Ile	Val	Ile 90	Ser	Ile	Ser	Tyr	Gly 95	Ser	Cys
Ile	Phe	Met	Tyr 100	Val	Lys	Pro	Ser	Ala 105	Asn	Glu	Arg	Ala 110	Ser	Leu	Thr
Lys	Gly	Val 115	Ala	Leu	Leu	Asn	Thr 120	Ser	Ile	Ala	Pro	Met 125	Leu	Asn	Pro
Phe 130	Ile	Tyr	Thr	Leu	Arg	Asn 135	Gln	Gln	Val	Lys	Gln 140	Ala	Phe	Lys	Asp
Leu 145	Ile	Asn	Lys	Leu	Met 150	Phe	Asn	Arg	Asn 155	Lys					

<213> Mus musculus

[illegible]

<210> 2407  
 <211> 124  
 <212> PRT  
 <213> Mus musculus

<400> 2407  
 Met Ala Glu Gly Asn Ser Ser Thr Val Phe Gln Phe Ile Leu Glu Gly  
 1 5 10 15  
 Leu Thr Asp Asp Pro Glu Leu Glu Val Thr Leu Phe Ala Val Phe Leu  
 20 25 30  
 Val Ile Tyr Leu Thr Thr Val Leu Gly Asn Leu Gly Leu Ile Met Leu  
 35 40 45  
 Ile Gln Val Ser Pro Gln Leu His Thr Pro Met Tyr Phe Phe Leu Cys  
 50 55 60  
 His Leu Ala Phe Val Asp Phe Cys Tyr Thr Ser Ser Val Thr Pro Asn  
 65 70 75 80  
 Thr Ile Ile Asn Phe Leu Arg Glu Ile Lys Ser Ile Thr Leu Tyr Ala  
 85 90 95  
 Cys Ala Thr Gln Val Cys Cys Phe Ile Thr Phe Ala Val Cys Glu Met  
 100 105 110  
 Tyr Leu Leu Ser Val Met Ala Tyr Asp Arg Tyr Val  
 115 120

<210> 2408  
 <211> 317  
 <212> PRT  
 <213> Mus musculus

<400> 2408  
 Met Lys Asn Tyr Asn Ser Ser Leu Gly Phe Leu Pro Thr Thr Phe Ile  
 1 5 10 15  
 Leu Val Gly Ile Pro Gly Leu Glu Thr Glu His Ile Trp Ile Ser Ile  
 20 25 30  
 Pro Phe Cys Leu Met Tyr Phe Ile Phe Leu Gly Asn Gly Thr Ile  
 35 40 45  
 Leu His Val Ile Arg Thr Asp Ala Ser Leu His Gln Pro Met Tyr Leu  
 50 55 60  
 Phe Leu Ala Met Leu Ala Leu Ala Glu Val Gly Val Ser Ala Ser Thr  
 65 70 75 80  
 Leu Pro Thr Val Leu Gly Ile Phe Leu Phe Asp Thr Ser Glu Ile Thr  
 85 90 95  
 Phe Glu Ala Cys Leu Leu Gln Met Phe Phe Ile His Ser Phe Ser Ile  
 100 105 110  
 Met Glu Ser Ala Val Leu Leu Ala Met Ser Val Asp Arg Phe Val Ala  
 115 120 125  
 Ile Tyr Ser Pro Leu Arg Tyr Thr Thr Ile Leu Thr Leu Pro Arg Ile  
 130 135 140  
 Phe Gly Thr Gly Ala Val Ile Gly Leu Lys Ser Val Ile Leu Met Ala  
 145 150 155 160  
 Pro Leu Pro Ile Leu Leu Arg Arg Leu Pro Phe Cys Gly His Asn Ala  
 165 170 175  
 Leu Ser His Ser Tyr Cys Leu His Pro Asn Leu Ile His Leu Pro Cys  
 180 185 190  
 Gly Asp Ile Ser Ile Asp Asn Ile Tyr Gly Leu Phe Ile Val Thr Ser



His	Arg	Leu	Gly	Gly	Pro	Thr	Ser	Leu	Val	His	Val	Ile	Met	Ala	Asn
		275					280					285			
Ile	Tyr	Leu	Leu	Leu	Pro	Pro	Val	Val	Asn	Pro	Ile	Val	Tyr	Gly	Ala
	290					295					300				
Lys	Thr	Lys	Glu	Ile	Arg	Ser	Arg	Val	Ile	Arg	Met	Phe	Ser	Gln	Asp
305					310					315					320
Gly	Arg														

<210> 2410  
 <211> 346  
 <212> PRT  
 <213> Mus musculus

<400> 2410

Met	Phe	Phe	Arg	Val	Cys	Leu	Gln	Val	Thr	Met	Leu	Ile	Phe	Asn	Asn
1				5					10					15	
Thr	Thr	Ser	Pro	Ser	Ser	Ser	Ser	Phe	Leu	Leu	Thr	Ala	Phe	Pro	Gly
			20					25					30		
Leu	Glu	Leu	Ala	His	Val	Trp	Ile	Ser	Ile	Pro	Val	Cys	Gly	Leu	Tyr
		35					40					45			
Thr	Ile	Ala	Leu	Leu	Gly	Asn	Ser	Ile	Ile	Leu	Phe	Val	Ile	Ile	Ile
	50					55					60				
Glu	Arg	Ser	Leu	His	Lys	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Met	Leu	Ser
65					70					75					80
Val	Val	Asp	Leu	Gly	Leu	Thr	Ile	Thr	Thr	Leu	Pro	Thr	Val	Leu	Gly
				85					90					95	
Val	Leu	Trp	Phe	His	Ala	Arg	Glu	Ile	Ser	Ile	Lys	Val	Cys	Leu	Ile
			100					105					110		
Gln	Met	Phe	Phe	Val	His	Gly	Phe	Ser	Phe	Leu	Glu	Ser	Ser	Val	Leu
		115					120					125			
Val	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Ser	Pro	Leu	Lys
	130					135					140				
Tyr	Ala	Thr	Phe	Leu	Thr	Asp	Met	Met	Ser	Phe	Val	Ile	Gly	Leu	Ile
145					150					155					160
Ile	Cys	Ile	Arg	Gln	Val	Val	Phe	Met	Phe	Pro	Ser	Val	Met	Ala	Val
				165					170					175	
Lys	Ser	Val	Ser	Phe	Gln	Gly	Gly	Gln	Glu	Leu	Ser	His	Pro	Phe	Cys
			180				185						190		
Phe	His	Pro	Asp	Ile	Ile	Lys	Phe	Thr	Tyr	Thr	Asn	Pro	Trp	Ile	Ser
		195					200					205			
Ser	Phe	Trp	Gly	Met	Phe	Leu	Gln	Leu	Tyr	Leu	Asn	Gly	Thr	Asp	Leu
	210					215					220				
Leu	Phe	Ile	Leu	Phe	Ser	Tyr	Val	Leu	Ile	Leu	Arg	Thr	Val	Leu	Asn
225					230					235					240
Ile	Val	Ala	Pro	Gln	Lys	Gln	Gln	Lys	Ala	Leu	Ser	Thr	Cys	Val	Cys
				245					250					255	
His	Ile	Cys	Ala	Val	Thr	Ile	Phe	Tyr	Val	Pro	Met	Ile	Thr	Leu	Ser
			260					265					270		
Val	Ala	His	Arg	Leu	Phe	Ser	Ser	Thr	Pro	Arg	Val	Ile	Cys	Ser	Ile
		275					280					285			
Leu	Gly	Asn	Met	Tyr	Leu	Leu	Leu	Pro	Pro	Val	Leu	Asn	Pro	Ile	Ile
	290					295					300				
Tyr	Ser	Leu	Lys	Thr	Lys	Val	Ile	Arg	Gln	Ala	Ile	Phe	Gln	Leu	Phe
305					310					315					320
Arg	Phe	Lys	Asp	Ala	Arg	Gly	Tyr	Ile	Met	Arg	Ser	Leu	Arg	Gly	Arg

				325					330			335
Trp	Ala	Arg	Arg	Arg	Gln	Phe	Ser	Ser	Ala	Ser	Thr	
			340					345				

<210> 2411  
 <211> 330  
 <212> PRT  
 <213> Mus musculus

<400> 2411

Met	Ser	Thr	Phe	Gln	Asn	Thr	Thr	Ala	Ser	Ser	Ile	Ile	Phe	Leu	Leu
1				5					10					15	
Thr	Gly	Val	Pro	Gly	Leu	Glu	Ala	Phe	His	Thr	Trp	Ile	Ser	Ile	Pro
			20					25					30		
Phe	Cys	Phe	Leu	Tyr	Ala	Thr	Ala	Leu	Ser	Gly	Asn	Ser	Leu	Ile	Leu
		35					40					45			
Phe	Val	Ile	Ile	Thr	Gln	Pro	Ser	Leu	His	Glu	Pro	Met	Cys	Tyr	Phe
	50					55					60				
Leu	Ser	Met	Leu	Ser	Thr	Asp	Leu	Gly	Leu	Ser	Ile	Ser	Thr	Leu	
65					70				75					80	
Ala	Thr	Met	Leu	Gly	Ile	Phe	Trp	Phe	Asn	Ala	Arg	Glu	Ile	Ser	Phe
				85					90					95	
Asn	Ala	Cys	Leu	Ser	Gln	Met	Phe	Phe	Ile	Gln	Leu	Phe	Thr	Val	Met
			100					105						110	
Glu	Ser	Ser	Val	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Ser	Asn	Pro	Leu	Arg	Tyr	Ala	Ser	Val	Leu	Thr	Asp	Leu	Lys	Ile	Ala
	130					135					140				
Gln	Ile	Gly	Val	Ala	Ile	Val	Thr	Arg	Gly	Thr	Leu	Ile	Leu	Thr	Pro
145					150					155					160
Met	Val	Val	Leu	Leu	Lys	Arg	Leu	Ser	Tyr	Cys	Ser	Ser	His	Val	Leu
				165					170					175	
His	His	Ser	Tyr	Cys	Phe	His	Pro	Asp	Val	Met	Lys	Leu	Ser	Cys	Thr
		180						185					190		
Asp	Thr	Arg	Ile	Asn	Ser	Ala	Val	Gly	Leu	Thr	Ala	Leu	Ile	Ser	Thr
	195					200						205			
Ala	Gly	Val	Asp	Ser	Val	Phe	Ile	Ile	Leu	Ser	Tyr	Val	Leu	Ile	Ile
	210					215					220				
Arg	Thr	Val	Leu	Ser	Ile	Ala	Ser	Pro	Glu	Glu	Arg	Lys	Lys	Ala	Phe
225					230					235					240
Ser	Thr	Cys	Ile	Ser	His	Ile	Gly	Ala	Val	Ala	Val	Phe	Tyr	Ile	Pro
				245					250					255	
Leu	Ile	Ser	Leu	Ser	Phe	Val	His	Arg	Phe	Gly	Lys	Arg	Ala	Pro	Pro
		260						265					270		
Tyr	Val	His	Thr	Leu	Ile	Ala	Asn	Ala	Tyr	Leu	Leu	Ile	Pro	Pro	Val
	275					280						285			
Met	Asn	Pro	Ile	Ile	Tyr	Ser	Val	Lys	Thr	Lys	Lys	Ile	Arg	Lys	Ala
	290					295					300				
Val	Leu	Lys	Val	Phe	His	Ser	Ser	Met	Thr	Arg	Ala	Ser	Leu	Leu	Phe
305					310					315					320
His	Arg	Phe	Ser	Thr	Leu	Ser	Phe	Tyr	Glu						
				325					330						

<210> 2412  
 <211> 309



<212> PRT  
<213> Mus musculus

<400> 2412

```
Val Leu Leu Asn His Thr Leu Val Thr Glu Phe Leu Leu Leu Gly Val
1          5          10          15
Thr Asp Ile Gln Glu Leu Asn Pro Ile Leu Phe Val Thr Val Leu Ala
20          25          30
Met Tyr Phe Val Asn Val Ala Gly Asn Gly Ala Ile Leu Met Ile Val
35          40          45
Ile Ser Asp Pro Arg Leu His Leu Pro Met Tyr Phe Phe Leu Gly Asn
50          55          60
Leu Ala Cys Leu Asp Ile Cys Phe Ser Thr Val Thr Val Pro Lys Met
65          70          75          80
Leu Glu Asn Phe Phe Ser Thr Ser Lys Ala Ile Ser Phe Leu Gly Cys
85          90          95
Ile Thr Gln Leu His Phe Phe His Phe Leu Gly Ser Thr Glu Ala Leu
100         105         110
Leu Leu Thr Val Met Ala Phe Asp Arg Phe Val Ala Ile Cys Arg Pro
115         120         125
Leu His Tyr Pro Ala Ile Met Asn Ser Gln Ile Cys Ile Leu Val Ala
130         135         140
Ile Ser Ile Trp Ala Ile Pro Phe Leu His Ala Leu Val His Ser Ile
145         150         155         160
Leu Thr Ser Gln Leu Asn Phe Cys Gly Ser Asn His Ile His His Phe
165         170         175
Phe Cys Asp Val Lys Pro Leu Leu Glu Leu Ala Cys Gly Asn Thr Glu
180         185         190
Leu Asn Arg Trp Leu Leu Asn Thr Leu Thr Gly Thr Val Ala Ile Gly
195         200         205
Leu Phe Phe Leu Thr Phe Leu Ser Tyr Phe Tyr Ile Val Thr Tyr Leu
210         215         220
Phe Leu Lys Thr Arg Ser Cys Ser Met Leu His Lys Ala Leu Ser Thr
225         230         235         240
Cys Ala Ser His Phe Met Val Val Met Ile Phe Tyr Ala Pro Val Leu
245         250         255
Phe Ile Tyr Ile Asn Pro Asp Ser Gly Ser Ser Leu Glu Lys Asp Arg
260         265         270
Ile Ile Ala Val Met Tyr Thr Val Val Thr Pro Ala Leu Asn Pro Leu
275         280         285
Ile Tyr Thr Leu Arg Asn Lys Glu Val Arg Gly Ala Leu Asn Arg Lys
290         295         300
Ile Arg Ile Leu Leu
305
```

<210> 2413  
<211> 312  
<212> PRT  
<213> Mus musculus

<400> 2413

```
Met Ser Ser Ile Asn Ser Thr Gln Phe His Pro Ser Phe Phe Ile Leu
1          5          10          15
Val Gly Ile Pro Gly Leu Glu Ile Phe His Ile Trp Ile Ala Phe Pro
20          25          30
Phe Cys Leu Val Tyr Leu Thr Ser Leu Val Gly Asn Ile Thr Ile Leu
```

		35					40				45				
Phe	Val	Ile	Lys	Thr	Glu	His	Ser	Leu	His	Gln	Pro	Met	Phe	Tyr	Phe
50						55					60				
Leu	Ala	Thr	Leu	Ser	Ile	Ile	Asp	Leu	Cys	Leu	Ser	Thr	Ser	Thr	Ile
65					70					75					80
Pro	Lys	Met	Leu	Gly	Ile	Phe	Trp	Phe	Asn	Leu	Arg	Glu	Ile	Ser	Phe
				85					90					95	
Gly	Gly	Cys	Leu	Ala	Gln	Met	Phe	Phe	Ile	His	Val	Phe	Thr	Gly	Met
			100					105					110		
Glu	Thr	Val	Leu	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile
			115				120					125			
Cys	Lys	Pro	Leu	Gln	Tyr	Thr	Thr	Ile	Leu	Thr	Asn	Lys	Thr	Ile	Ser
			130			135					140				
Leu	Leu	Leu	Ser	Val	Val	Ile	Gly	Arg	Asn	Leu	Ile	Leu	Val	Thr	Pro
145					150					155					160
Phe	Val	Phe	Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	His	His	Ile	Met
				165					170					175	
Pro	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Leu	Ala	Arg	Leu	Ala	Cys	Ala
			180					185					190		
Pro	Ile	Lys	Ile	Asn	Ile	Ile	Tyr	Gly	Leu	Val	Val	Ile	Ser	His	Ile
		195				200						205			
Leu	Val	Asp	Met	Ile	Leu	Ile	Ala	Ser	Ser	Tyr	Val	Leu	Ile	Leu	Arg
		210				215					220				
Ala	Val	Phe	Arg	Ile	Pro	Ser	Gln	Asp	Ala	Arg	Leu	Lys	Ala	Leu	Asn
225					230					235					240
Thr	Cys	Gly	Ser	His	Val	Cys	Ile	Met	Leu	Cys	Phe	Tyr	Thr	Pro	Ala
				245					250					255	
Leu	Phe	Ser	Phe	Met	Thr	His	Arg	Phe	Gly	Gln	Asn	Ile	Pro	His	Tyr
			260					265					270		
Ile	His	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Val	Val	Ile	Pro	Pro	Ala	Leu
			275				280					285			
Asn	Pro	Val	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Gln	Ile	Arg	Glu	Lys	Ile
		290				295					300				
Ile	Lys	Ile	Val	Val	Gln	Lys	Glu								
305					310										

<210> 2414  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2414

Met	Glu	Lys	Trp	Asn	Gln	Ser	Ser	Ser	Asp	Phe	Ile	Leu	Leu	Gly	Leu
1				5					10					15	
Leu	Pro	Gln	Asn	Gln	Thr	Gly	Leu	Leu	Leu	Met	Met	Leu	Ile	Ile	Leu
			20					25					30		
Val	Phe	Phe	Leu	Ala	Leu	Phe	Gly	Asn	Ser	Ala	Met	Ile	His	Leu	Ile
		35					40					45			
Arg	Val	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser	Gln
		50				55					60				
Leu	Ser	Leu	Met	Asp	Leu	Met	Tyr	Ile	Ser	Thr	Thr	Val	Pro	Lys	Met
65					70					75					80
Ala	Phe	Asn	Phe	Leu	Ser	Gly	Gln	Lys	Asn	Ile	Ser	Phe	Leu	Gly	Cys
				85					90					95	
Gly	Val	Gln	Ser	Phe	Phe	Phe	Leu	Thr	Met	Ala	Gly	Ser	Glu	Gly	Leu
			100					105					110		

Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	Pro
		115					120					125			
Leu	His	Tyr	Pro	Ile	Arg	Met	Ser	Lys	Ile	Met	Cys	Leu	Lys	Met	Ile
		130				135					140				
Ile	Gly	Ser	Trp	Ile	Leu	Gly	Ser	Ile	Asn	Ser	Leu	Ala	His	Ser	Ile
145					150					155					160
Tyr	Ala	Leu	His	Ile	Pro	Tyr	Cys	His	Ser	Arg	Ser	Ile	Asn	His	Phe
				165					170					175	
Phe	Cys	Asp	Val	Pro	Ala	Met	Leu	Pro	Leu	Ala	Cys	Met	Asp	Thr	Trp
			180					185					190		
Val	Tyr	Glu	Tyr	Met	Val	Phe	Val	Ser	Thr	Ser	Leu	Phe	Leu	Leu	Leu
		195					200				205				
Pro	Phe	Leu	Gly	Ile	Thr	Ala	Ser	Tyr	Gly	Arg	Val	Leu	Phe	Ala	Val
		210				215					220				
Phe	His	Met	Arg	Ser	Lys	Glu	Gly	Lys	Lys	Lys	Ala	Phe	Thr	Thr	Cys
225					230					235					240
Ser	Thr	His	Leu	Thr	Val	Val	Thr	Phe	Tyr	Tyr	Ala	Pro	Phe	Val	Tyr
				245					250					255	
Thr	Tyr	Leu	Arg	Pro	Arg	Ser	Leu	Arg	Ser	Pro	Thr	Glu	Asp	Lys	Ile
			260					265					270		
Leu	Thr	Val	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Leu	Gly	Ala	Met	Thr	Arg	Val	Leu
		290				295					300				
Gly	Thr	Phe	Ser	Ser	Met	Lys	Pro								
305					310										

<210> 2415  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2415

Met	Glu	Asn	Ile	Ala	Cys	Asn	Gly	Ser	Gly	Asn	Ser	Gln	Thr	Ser	Phe
1				5					10					15	
Tyr	Leu	Thr	Gly	Ile	Pro	Ser	Leu	Gln	Lys	Ser	Leu	Phe	Leu	Pro	Val
			20					25					30		
Phe	Leu	Ile	Phe	Leu	Leu	Leu	Tyr	Leu	Leu	Ile	Leu	Val	Gly	Asn	Ala
		35					40					45			
Leu	Ile	Leu	Val	Ala	Val	Val	Ala	Glu	Arg	Ser	Leu	His	Lys	Pro	Met
		50				55					60				
Tyr	Phe	Phe	Leu	Ile	Asn	Leu	Ser	Ala	Leu	Asp	Ile	Leu	Phe	Thr	Thr
65					70					75					80
Thr	Thr	Val	Pro	Lys	Met	Leu	Ser	Leu	Leu	Leu	Leu	Gly	Asp	Arg	Phe
				85					90					95	
Leu	Ser	Phe	Pro	Ala	Cys	Phe	Leu	Gln	Met	Tyr	Leu	Phe	His	Ser	Phe
			100					105					110		
Ser	Cys	Ser	Glu	Ala	Phe	Ile	Leu	Val	Val	Met	Ala	Tyr	Asp	Arg	Tyr
		115					120					125			
Val	Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Val	His	Met	Thr	Pro	Gln
		130				135					140				
Thr	Asn	Thr	Ala	Leu	Ala	Ser	Ala	Trp	Ile	Thr	Ala	Leu	Leu	Leu	
145					150					155					160
Pro	Ile	Pro	Ala	Val	Ile	Gln	Thr	Ser	Gln	Met	Ala	Phe	Asp	Asn	Ile
				165					170					175	
Ala	Tyr	Ile	Tyr	His	Cys	Phe	Cys	Asp	His	Leu	Ala	Val	Val	Gln	Ala



Arg	Leu	Pro	Thr	Gln	Glu	Ala	Arg	Val	Lys	Ala	Phe	Gly	Thr	Cys	Ser
				245					250					255	
Ser	His	Ile	Cys	Val	Ile	Leu	Ala	Phe	Tyr	Val	Pro	Gly	Leu	Phe	Ser
			260					265					270		
Phe	Leu	Thr	His	Arg	Phe	Gly	Arg	His	Thr	Val	Pro	Lys	Pro	Val	His
		275					280					285			
Ile	Leu	Leu	Ser	Ile	Ile	Tyr	Leu	Leu	Leu	Pro	Pro	Ala	Leu	Asn	Pro
	290					295					300				
Leu	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Gln	Ile	Arg	Asp	Arg	Phe	Leu	Glu
305					310					315					320
Met	Phe	Lys	Phe	Arg	Lys	Lys	Gln	Phe							
				325											

<210> 2417

<211> 322,

<212> PRT

<213> Mus musculus

<400> 2417

Met	Gly	Glu	Asp	Gly	Asn	Thr	Ser	Ile	Phe	Asn	Leu	Ser	Tyr	Ser	Ser
1				5					10					15	
Phe	Leu	Leu	Val	Gly	Phe	Pro	Gly	Leu	Gln	Glu	Gly	Arg	Pro	Leu	Leu
			20					25					30		
Val	Leu	Pro	Leu	Thr	Phe	Leu	Tyr	Val	Ser	Ile	Val	Ser	Ala	Asn	Ala
		35					40					45			
Leu	Val	Ile	His	Thr	Val	Val	Ala	Gln	Arg	Ser	Leu	His	Gln	Pro	Met
	50					55					60				
Tyr	Val	Leu	Ile	Ala	Leu	Leu	Leu	Ala	Val	Asn	Ile	Cys	Ala	Ser	Thr
65					70					75					80
Ala	Val	Met	Pro	Lys	Met	Leu	Glu	Gly	Phe	Val	His	Tyr	Ala	Asn	Pro
				85					90					95	
Ile	Ser	Leu	Arg	Gly	Cys	Leu	Thr	Gln	Met	Phe	Phe	Ile	Tyr	Phe	Thr
			100					105					110		
Leu	Leu	Leu	Asp	Tyr	Asn	Leu	Leu	Leu	Ala	Met	Ala	Leu	Asp	Arg	Tyr
		115					120					125			
Val	Ala	Ile	Cys	His	Pro	Leu	Arg	Tyr	Thr	Asp	Leu	Met	Thr	Ser	His
	130						135					140			
Leu	Leu	Gly	Leu	Met	Ala	Thr	Phe	Ala	Ile	Thr	Arg	Ser	Leu	Gly	Val
145					150					155					160
Ala	Val	Pro	Leu	Val	Val	Leu	Thr	Ala	Lys	Ala	Gln	Phe	Cys	Lys	Thr
				165					170					175	
Ser	Val	Ile	Arg	His	Phe	Thr	Cys	Glu	Tyr	Ile	Ala	Leu	Leu	Ser	Ile
			180					185					190		
Ala	Cys	Gly	Asp	Leu	Thr	Phe	Asn	Asn	Arg	Leu	Gly	Leu	Ala	Met	Arg
		195					200					205			
Leu	Val	Thr	Val	Thr	Phe	Asp	Leu	Ala	Leu	Leu	Gly	Thr	Ser	Tyr	Thr
		210				215					220				
Arg	Ile	Ile	Tyr	Ala	Ala	Phe	Arg	Ile	Ser	Ser	Gly	Gly	Ala	Arg	Ala
225					230					235					240
Lys	Ala	Leu	His	Thr	Cys	Gly	Ser	His	Leu	Leu	Val	Ile	Leu	Thr	Ile
				245					250					255	
Tyr	Leu	Ser	Gly	Leu	Ser	Thr	Ser	Ile	Val	Phe	Arg	Val	Ala	Lys	Thr
			260					265					270		
Val	Ser	Gln	Asp	Val	Gln	Asn	Leu	Ser	Ala	Ile	Tyr	Leu	Leu	Leu	
		275					280				285				
Pro	Gly	Ala	Leu	Asn	Pro	Leu	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Glu	Ile

290		295		300
Arg Gln His Ile Glu Lys Met Leu Cys Gly Met Gln Ser Pro Gln Asp				
305	310	315		320
Ser Arg				

<210> 2418  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2418

Met Phe Asn Ser Ser Gln Phe Thr Pro Lys Tyr Phe Leu Leu Thr Gly				
1	5	10	15	
Phe Pro Gly Leu Glu Ala Trp Tyr Pro Trp Leu Ile Phe Pro Phe Cys				
20	25	30		
Phe Thr Tyr Thr Ile Gly Ile Met Gly Asn Thr Leu Ile Leu Ala Val				
35	40	45		
Ile Arg Lys Asn Ser Ser Leu His Gln Pro Met Phe Leu Phe Leu Ala				
50	55	60		
Met Leu Ala Phe Ser Glu Leu Gly Val Ser Ala Ser Thr Leu Pro Thr				
65	70	75	80	
Val Leu Ser Ile Phe Leu Leu Gly Ala Asn Lys Ile Cys Phe Glu Ala				
85	90	95		
Cys Leu Leu Gln Met Phe Ser Ile His Ser Phe Ser Ile Met Glu Ser				
100	105	110		
Gly Val Leu Leu Ala Met Ser Val Asp Arg Phe Val Ala Ile Tyr Asn				
115	120	125		
Pro Leu Arg Tyr Thr Ala Ile Leu Thr Leu Pro Arg Ile Ala Gly Thr				
130	135	140		
Ser Leu Thr Leu Gly Leu Lys Ser Leu Leu Leu Met Phe Pro Leu Pro				
145	150	155	160	
Phe Leu Leu Lys Arg Leu Pro Phe Cys Gly His Asn Val Leu Ser His				
165	170	175		
Ser Tyr Cys Leu His Ser Asp Leu Ile Gln Leu Pro Cys Gly Asp Thr				
180	185	190		
Arg Pro Asn Ser Ile Leu Gly Leu Cys Ile Val Thr Ser Thr Phe Gly				
195	200	205		
Leu Asp Ser Leu Leu Ile Val Val Ser Tyr Val Leu Ile Leu Tyr Thr				
210	215	220		
Val Leu Asn Ile Thr Ser Gly Glu Gly Arg Arg Lys Ala Leu Asn Thr				
225	230	235	240	
Cys Val Ser His Met Cys Ala Val Leu Val Tyr Tyr Val Pro Met Ile				
245	250	255		
Ser Val Ala Leu Val His Arg Phe Met Lys His Ala Val Pro Ala Val				
260	265	270		
Arg Leu Leu Leu Ala Asn Ile Tyr Leu Leu Val Pro Pro Met Leu Asn				
275	280	285		
Pro Ile Ile Tyr Ser Ala Lys Asn Arg Gln Ile Arg Gln Gly Leu Ile				
290	295	300		
Gln Leu Phe Leu Gln Arg Lys Tyr				
305	310			

<210> 2419  
 <211> 320

<212> PRT  
<213> Mus musculus

<400> 2419

Leu	Asp	Thr	Lys	Arg	Ala	Thr	Asn	Ser	Ser	Glu	Phe	Gln	Val	Ser	Glu
1				5					10					15	
Phe	Ile	Leu	Leu	Gly	Phe	Pro	Gly	Ile	His	Glu	Phe	Gln	Ile	Trp	Leu
			20					25					30		
Ser	Leu	Pro	Met	Ala	Leu	Leu	Tyr	Ile	Val	Ala	Leu	Gly	Ala	Asn	Leu
		35					40					45			
Leu	Ile	Leu	Ile	Thr	Ile	Tyr	Leu	Glu	Pro	Thr	Leu	His	Gln	Pro	Met
	50				55						60				
Tyr	Gln	Phe	Leu	Gly	Ile	Leu	Ala	Ala	Val	Asp	Ile	Gly	Leu	Ala	Thr
65					70					75					80
Thr	Ser	Met	Pro	Lys	Ile	Leu	Ala	Ile	Leu	Trp	Phe	Asp	Ala	Lys	Thr
				85					90					95	
Ile	Ser	Leu	Pro	Glu	Cys	Phe	Ala	Gln	Ile	Tyr	Ala	Ile	His	Thr	Phe
			100					105					110		
Met	Cys	Met	Glu	Ser	Gly	Val	Phe	Leu	Cys	Met	Ala	Ile	Asp	Arg	Tyr
		115						120					125		
Val	Ala	Ile	Cys	Tyr	Pro	Leu	Gln	Tyr	Pro	Ser	Ile	Val	Thr	Glu	Ala
	130					135						140			
Phe	Val	Ile	Lys	Ala	Thr	Leu	Ser	Met	Leu	Leu	Arg	Asn	Gly	Leu	Leu
145					150					155					160
Thr	Ile	Pro	Val	Pro	Val	Leu	Ala	Ala	Gln	Arg	Gln	Tyr	Cys	Ser	Arg
				165					170					175	
Asn	Glu	Ile	Asp	His	Cys	Leu	Cys	Ser	Asn	Leu	Gly	Val	Ile	Ser	Leu
			180					185					190		
Ala	Cys	Asp	Asp	Ile	Thr	Val	Asn	Arg	Phe	Tyr	Gln	Leu	Ala	Leu	Ala
		195					200					205			
Trp	Leu	Val	Val	Gly	Ser	Asp	Met	Ile	Leu	Val	Tyr	Ala	Ser	Tyr	Ala
	210					215					220				
Leu	Ile	Ile	Arg	Ser	Val	Leu	Arg	Leu	Asn	Ser	Thr	Glu	Ala	Ala	Ser
225					230					235					240
Lys	Ala	Leu	Ser	Thr	Cys	Ser	Ser	His	Leu	Ile	Leu	Ile	Met	Phe	Tyr
			245						250					255	
Tyr	Thr	Ala	Ile	Val	Ile	Val	Ser	Val	Thr	His	Leu	Ala	Gly	Arg	Arg
		260						265					270		
Val	Pro	Leu	Ile	Pro	Val	Leu	Leu	Asn	Val	Met	His	Ile	Val	Ile	Pro
		275					280					285			
Pro	Ser	Leu	Asn	Pro	Met	Val	Tyr	Ala	Leu	Arg	Thr	Gln	Glu	Leu	Lys
		290				295					300				
Val	Gly	Phe	Arg	Lys	Val	Phe	Glu	Ser	Leu	Cys	Val	Gln	Lys	Val	Asn
305					310					315					320

<210> 2420  
<211> 322  
<212> PRT  
<213> Mus musculus

<400> 2420

Asn	Arg	Ser	Gln	Thr	Ala	Asp	Pro	Lys	Asn	Ser	Ser	Thr	Val	Thr	Glu
1				5					10					15	
Phe	Ile	Leu	Val	Gly	Phe	Glu	Gln	Ser	Ser	Pro	Ser	Thr	Arg	Ala	Leu
			20					25					30		
Leu	Phe	Thr	Leu	Phe	Leu	Ala	Leu	Tyr	Ser	Leu	Ala	Met	Ala	Met	Asn





Thr	Val	Ser	Phe	Ala	Ser	Cys	Leu	Thr	Gln	Met	Tyr	Leu	Val	Phe	Gly
			100					105					110		
Val	Gly	Val	Ala	Glu	Cys	Ile	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg
		115					120					125			
Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Asn	Tyr	Ala	Gln	Ile	Met	Ser	Gln
	130					135					140				
Lys	Val	Cys	Val	Arg	Leu	Val	Cys	Ser	Ser	Trp	Ile	Phe	Gly	Met	Val
145					150					155					160
Asn	Gly	Ile	Leu	Leu	Asp	Tyr	Met	Thr	Phe	Arg	Gly	Pro	Phe	Cys	Arg
				165					170					175	
Glu	Asn	His	Ile	Glu	Asn	Phe	Phe	Cys	Glu	Ala	Pro	Ile	Val	Ile	Ala
			180					185					190		
Leu	Ser	Cys	Gly	Asp	Pro	Glu	Phe	Ser	Leu	Lys	Val	Ile	Phe	Met	Asp
		195				200					205				
Ala	Ile	Val	Val	Leu	Leu	Ser	Pro	Met	Val	Leu	Ile	Val	Thr	Ser	Tyr
	210					215					220				
Ala	Arg	Ile	Leu	Ala	Ser	Ile	Leu	Arg	Arg	Ala	Ser	Ser	Ala	Gly	Arg
225					230					235					240
Gly	Lys	Thr	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Val	Phe
			245						250					255	
Phe	Tyr	Thr	Ser	Ala	Met	Phe	Ser	Tyr	Met	Asn	Pro	Arg	Ser	Thr	His
			260					265					270		
Gly	Pro	Asp	Lys	Asp	Lys	Pro	Phe	Ser	Leu	Leu	Tyr	Thr	Ile	Ile	Thr
		275				280						285			
Pro	Met	Cys	Asn	Pro	Val	Ile	Tyr	Ser	Phe	Arg	Asn	Lys	Glu	Met	Lys
	290					295					300				
Gly	Ala	Met	Gly	Arg	Ala	Leu	Gly	Arg	Gly	Ser	Leu	Ala	Gln	Ala	Glu
305					310					315					320
Ser	Val														

<210> 2422  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2422

Met	Arg	Asn	Phe	Ser	Val	Val	Ser	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Ser
1				5					10					15	
Asp	Asp	Ala	Gln	Val	Gln	Ala	Leu	Leu	Phe	Val	Ala	Phe	Leu	Val	Ile
			20					25					30		
Tyr	Val	Leu	Thr	Leu	Thr	Gly	Asn	Ser	Met	Ile	Leu	Leu	Val	Ile	Arg
	35					40						45			
Val	Asp	Ala	His	Leu	Arg	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	His	Leu
	50					55					60				
Ser	Phe	Leu	Asp	Leu	Leu	Tyr	Ser	Ser	Val	Ser	Thr	Pro	Lys	Met	Leu
65					70					75					80
Glu	Asn	Leu	Val	Ser	Glu	Thr	Lys	Thr	Ile	Pro	Val	Lys	Gly	Cys	Leu
				85					90					95	
Ala	Gln	Ala	Phe	Phe	Val	Phe	Ala	Ile	Gly	Gly	Thr	Glu	Ala	Leu	Leu
		100						105					110		
Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	His	Pro	Leu
	115						120					125			
Leu	Tyr	Gly	Gln	Met	Met	Asn	Asp	Trp	Phe	Cys	Gln	Val	Leu	Val	Trp
	130					135					140				
Gly	Ser	Trp	Ile	Leu	Ala	Ile	Leu	Asn	Ser	Leu	Ile	Asn	Thr	Leu	Leu

145					150					155				160
Ala	Val	Ser	Leu	Asp	Phe	Cys	His	Tyr	Gly	Thr	Ile	His	Asn	Tyr
				165					170					175
Cys	Glu	Phe	Pro	Ser	Leu	Phe	Pro	Leu	Ser	Cys	Ser	Asp	Val	Ser
				180					185				190	
Asn	Ala	Thr	Ala	Ile	Val	Cys	Ser	Phe	Val	Ile	His	Ala	Ser	Gly
				195				200				205		
Phe	Leu	Leu	Val	Val	Gly	Ser	Tyr	Gly	Cys	Ile	Phe	Ser	Thr	Ile
								215				220		
Asn	Met	Ser	Ser	Thr	Arg	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235				240
Ser	His	Leu	Thr	Val	Val	Met	Leu	Tyr	Phe	Gly	Ser	Ala	Cys	Leu
				245					250					255
Tyr	Val	Met	Pro	Thr	Ser	Gly	Ser	Pro	Val	Glu	Met	Tyr	Phe	Ser
				260				265						270
Gln	Tyr	Ser	Val	Ile	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr	Ser
				275			280					285		
Lys	Asn	Gln	Glu	Val	Lys	Ala	Ala	Met	Arg	Lys	Leu	Leu	Ala	Arg
	290					295					300			
Tyr	Gln	His	Phe											
305														

<210> 2423  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2423

Met	Glu	Leu	Trp	Asn	Ser	Thr	Leu	Glu	Ser	Gly	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Ile	Leu	Asn	Gly	Ser	Ser	Ser	Pro	Glu	Leu	Leu	Cys	Ala	Ile	Val	Thr
			20					25					30		
Ala	Leu	Tyr	Met	Leu	Ala	Leu	Ile	Ser	Asn	Gly	Leu	Leu	Leu	Leu	Val
			35				40					45			
Ile	Thr	Val	Asp	Ala	Arg	Leu	His	Val	Pro	Met	Tyr	Leu	Leu	Leu	Arg
	50					55					60				
Gln	Leu	Ser	Leu	Ile	Asp	Leu	Leu	Phe	Thr	Ser	Val	Val	Thr	Pro	Lys
65					70					75					80
Ala	Val	Met	Asp	Phe	Leu	Leu	Arg	Asp	Asn	Thr	Ile	Ser	Phe	Gly	Gly
				85					90					95	
Cys	Ala	Leu	Gln	Met	Ala	Leu	Ala	Leu	Met	Leu	Gly	Ser	Ala	Glu	Asp
			100					105					110		
Leu	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
			115				120					125			
Pro	Leu	Asn	Tyr	Met	Val	Phe	Met	Ser	Pro	Thr	Val	Cys	Trp	Leu	Ile
	130					135					140				
Val	Ser	Thr	Ser	Trp	Ile	Leu	Ala	Ser	Leu	Thr	Ala	Val	Gly	His	Thr
145					150					155					160
Val	Tyr	Thr	Met	His	Phe	Pro	Phe	Cys	Met	Ser	Gln	Glu	Ile	Arg	His
				165					170					175	
Leu	Leu	Cys	Glu	Ile	Leu	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Val	Asp	Thr
			180					185					190		
Ser	Gln	Tyr	Glu	Leu	Met	Val	Tyr	Val	Thr	Gly	Val	Thr	Phe	Leu	Leu
	195						200					205			
Leu	Pro	Leu	Ser	Ala	Ile	Val	Thr	Ser	Tyr	Thr	Leu	Ile	Leu	Ser	Thr
	210					215					220				

Val	Leu	His	Met	Pro	Ser	Asn	Glu	Gly	Lys	Lys	Lys	Ala	Leu	Val	Thr
225					230					235					240
Cys	Leu	Ser	His	Leu	Met	Val	Val	Gly	Met	Phe	Tyr	Gly	Ala	Ala	Thr
			245						250						255
Phe	Met	Tyr	Val	Leu	Pro	Ser	Ser	Leu	His	Ser	Ala	Lys	Gln	Asp	Asn
		260						265					270		
Ile	Ile	Ser	Val	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu
		275					280						285		
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile	Gly	Ala	Leu	Arg	Arg	Val
	290				295						300				
Leu	Gly	Arg	Tyr	Ile	Leu	Pro	Ala	His	Leu	Thr	Leu				
305					310					315					

<210> 2424  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2424

Met	Glu	Asn	Ile	Thr	Asn	Ile	Ser	Glu	Phe	Ile	Leu	Met	Gly	Phe	Pro
1			5						10					15	
Thr	Ala	Pro	Trp	Leu	Gln	Ile	Leu	Leu	Phe	Ser	Ile	Phe	Phe	Ile	Thr
		20						25					30		
Tyr	Val	Phe	Val	Leu	Leu	Glu	Asn	Leu	Val	Ile	Ile	Leu	Thr	Val	Trp
		35				40						45			
Val	Thr	Gly	Ser	Leu	His	Lys	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Thr	Met
	50					55					60				
Ser	Phe	Leu	Glu	Ala	Trp	Tyr	Ile	Ser	Val	Thr	Val	Pro	Lys	Met	Leu
65					70					75					80
Ala	Gly	Phe	Leu	Phe	Arg	Pro	Asn	Thr	Ile	Ser	Phe	Leu	Gly	Cys	Met
			85					90						95	
Thr	Gln	Leu	Tyr	Phe	Phe	Met	Ser	Leu	Ala	Cys	Thr	Glu	Cys	Val	Leu
		100						105					110		
Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Trp	Pro	Leu
		115				120						125			
Arg	Tyr	Pro	Val	Met	Met	Thr	Thr	Gly	Phe	Cys	Val	Gln	Leu	Thr	Ile
	130					135					140				
Ser	Ser	Trp	Val	Ser	Gly	Phe	Thr	Ile	Ser	Met	Ala	Lys	Val	Tyr	Phe
145				150						155					160
Ile	Ser	Arg	Val	Ala	Phe	Cys	Gly	Asn	Asn	Val	Leu	Asn	His	Phe	Phe
			165					170						175	
Cys	Asp	Val	Ser	Pro	Ile	Leu	Lys	Leu	Ala	Cys	Met	Asn	Leu	Ser	Met
		180						185					190		
Ala	Glu	Thr	Val	Asp	Phe	Ala	Leu	Ala	Ile	Val	Ile	Leu	Ile	Phe	Pro
		195					200					205			
Leu	Ser	Ala	Thr	Val	Leu	Ser	Tyr	Gly	Phe	Ile	Val	Ser	Thr	Val	Leu
	210					215					220				
Gln	Ile	Pro	Ser	Ala	Thr	Gly	Gln	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ala
225				230						235					240
Ser	His	Leu	Thr	Val	Val	Val	Ile	Phe	Tyr	Thr	Ala	Val	Ile	Phe	Met
			245						250					255	
Tyr	Val	Arg	Pro	Arg	Ala	Ile	Ala	Ser	Phe	Asn	Ser	Asn	Lys	Leu	Ile
		260						265					270		
Ser	Ala	Ile	Tyr	Ala	Val	Phe	Thr	Pro	Met	Leu	Asn	Pro	Ile	Ile	Tyr
	275						280						285		
Cys	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asp	Ala	Ile	Arg	Lys	Thr	Ile	Ala

290		295		300
Gly Gly Arg Ala Pro	Ala Leu Gly Glu Ser	Ile Ser		
305	310	315		

<210> 2425  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2425

Met Gln Phe Glu Asn Phe Thr Thr Val Phe Thr Glu Phe Val Leu Leu	
1 5 10 15	
Gly Leu Ser Gly Arg Gln Asp Val Gln Gln Gly Leu Phe Ala Leu Phe	
20 25 30	
Phe Leu Val Tyr Gly Ile Thr Val Ile Ala Asn Leu Gly Met Ile Leu	
35 40 45	
Leu Ile Lys Leu Asp Ser Arg Leu His Thr Pro Met Tyr Tyr Phe Leu	
50 55 60	
Ser Asn Leu Ser Phe Cys Asp Ile Cys Tyr Ser Thr Ile Ile Ser Pro	
65 70 75 80	
Lys Met Leu Ala Asp Phe Leu Ser Lys Glu Lys Arg Ile Pro Tyr Asn	
85 90 95	
Leu Cys Ala Ile Gln Leu Tyr Phe Phe Gly Ala Phe Ala Asp Val Glu	
100 105 110	
Cys Leu Met Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys	
115 120 125	
Asn Pro Leu Leu Tyr Thr Ile Lys Met Ser Lys Lys Leu Cys Ile Gln	
130 135 140	
Leu Val Ala Val Ala Tyr Ala Ile Gly Leu Val Asp Ser Thr Ile His	
145 150 155 160	
Thr Ser Cys Ala Phe Arg Leu Ser Phe Cys Asn Ser Asn Val Ile Asn	
165 170 175	
His Phe Phe Cys Asp Leu Pro Pro Leu Leu Ala Leu Ser Cys Ser Asp	
180 185 190	
Thr Ser Ile Asn Glu Ile Val Met Phe Thr Leu Ile Gly Cys Val Val	
195 200 205	
Gly Cys Ser Ile Val Thr Val Leu Leu Ser Tyr Cys Tyr Ile Ile Ala	
210 215 220	
Thr Ile Cys Arg Met Asn Ser Ala Glu Gly Arg His Lys Ala Phe Ser	
225 230 235 240	
Thr Cys Ala Ser His Leu Met Ala Leu Ala Ile Phe Tyr Gly Thr Leu	
245 250 255	
Leu Phe Met Tyr Phe Arg Pro Ser Ser Ser Tyr Ser Met Asp Thr Asp	
260 265 270	
Lys Met Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn Pro	
275 280 285	
Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Lys Lys	
290 295 300	
Ala Ile Asn Ile Asn Leu Trp Pro Gly	
305 310	

<210> 2426  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 2426

Met	Phe	Tyr	Leu	Leu	Ser	Val	Asp	Glu	Glu	Lys	Ile	Lys	Ala	Glu	Lys
1				5					10					15	
Ser	Asn	Ala	Ser	Ser	Leu	Ile	Glu	Phe	Ile	Leu	Leu	Gly	Phe	Ser	Asp
			20					25					30		
Val	Pro	Asn	Leu	Gln	Trp	Ile	Leu	Phe	Gly	Ile	Phe	Leu	Ile	Met	Tyr
		35					40					45			
Leu	Thr	Ile	Leu	Met	Cys	Asn	Ser	Thr	Ile	Val	Leu	Ile	Thr	Arg	Thr
	50					55					60				
Asp	Pro	Ala	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Phe	Ser
65					70					75					80
Phe	Val	Glu	Ile	Cys	Tyr	Val	Thr	Val	Thr	Ile	Pro	Arg	Met	Leu	Val
				85					90					95	
Asp	Leu	Cys	Thr	Gln	Lys	Gly	Asn	Ile	Ser	Ile	Leu	Ala	Cys	Ala	Thr
			100					105					110		
Gln	Met	Cys	Phe	Ile	Leu	Met	Leu	Gly	Gly	Thr	Glu	Cys	Leu	Leu	Leu
	115						120					125			
Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	His
	130					135					140				
Tyr	Ser	Leu	Val	Met	Asn	His	Arg	Ile	Cys	Thr	Gln	Leu	Val	Ala	Ala
145					150					155					160
Cys	Trp	Ile	Ser	Val	Ile	Pro	Val	Val	Ile	Gly	Gln	Thr	Tyr	Gln	Ile
				165					170					175	
Phe	Ser	Leu	Pro	Phe	Cys	Gly	Ser	Asn	Arg	Ile	Asn	His	Phe	Ile	Cys
			180					185					190		
Asp	Ile	Pro	Pro	Val	Leu	Lys	Leu	Ala	Cys	Gly	Asp	Thr	Phe	Val	Asn
	195					200						205			
Glu	Ile	Ala	Val	Tyr	Val	Val	Ala	Met	Val	Phe	Val	Met	Val	Pro	Phe
	210					215					220				
Met	Leu	Ile	Ile	Phe	Ser	Tyr	Cys	Lys	Ile	Ile	Cys	Ser	Ile	Leu	Lys
225					230					235					240
Leu	Ser	Ser	Ala	Lys	Gly	Arg	Thr	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser
			245						250					255	
His	Leu	Ile	Val	Val	Val	Leu	Phe	Tyr	Gly	Thr	Ala	Ser	Ile	Thr	Tyr
		260						265					270		
Leu	Gln	Pro	Lys	Pro	Asn	Gln	Ser	Glu	Ile	Thr	Gly	Lys	Leu	Leu	Ser
	275					280						285			
Leu	Phe	Tyr	Thr	Ile	Leu	Ile	Pro	Thr	Leu	Asn	Pro	Ile	Ile	Tyr	Thr
	290					295					300				
Leu	Arg	Asn	Lys	Asp	Ile	Met	Ala	Ala	Leu	Arg	Lys	Leu	Val	Ser	Lys
305					310					315					320
Ile	Leu	Val													

<210> 2427

<211> 311

<212> PRT

<213> Mus musculus

<400> 2427

Met	Thr	Phe	Glu	Ile	Ile	Thr	Val	Phe	Thr	Asp	Phe	Val	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Gly	Arg	Gln	Asp	Val	Gln	Gln	Gly	Leu	Phe	Ala	Leu	Phe	Phe
			20					25					30		
Leu	Val	Tyr	Gly	Ile	Thr	Val	Ile	Ala	Asn	Leu	Gly	Met	Ile	Leu	Leu



Leu	Ala	Ala	Thr	Glu	Ser	Ile	Phe	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg
	115						120					125			
Tyr	Val	Ala	Ile	Cys	Ser	Pro	Leu	His	Tyr	Pro	Leu	Val	Met	Ser	Pro
	130					135					140				
Arg	Lys	Cys	Arg	Gln	Leu	Ala	Ala	Gly	Ser	Trp	Leu	Gly	Gly	Met	Pro
145				150					155						160
Phe	Gln	Val	Gly	Gln	Thr	Cys	Gln	Ile	Phe	Ser	Leu	His	Phe	Cys	Asn
			165					170						175	
Ser	Asn	Gln	Ile	Glu	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Val	Leu	Lys
		180						185					190		
Leu	Ala	Cys	Gly	Asp	Thr	Ser	Val	Ile	Glu	Met	Tyr	Val	Tyr	Val	Val
	195						200					205			
Ala	Ile	Leu	Leu	Ala	Ala	Ile	Pro	Phe	Ile	Leu	Ile	Leu	Thr	Ser	Tyr
	210					215					220				
Ser	Lys	Ile	Ile	Ala	Thr	Ile	Leu	Arg	Leu	Pro	Thr	Ala	Glu	Gly	Arg
225					230					235					240
Ser	Lys	Ala	Phe	Phe	Thr	Cys	Ser	Ser	His	Leu	Val	Val	Val	Val	Leu
			245						250					255	
Phe	Phe	Ala	Pro	Ala	Ser	Ile	Thr	Tyr	Leu	Met	Pro	Lys	Ser	Ser	His
		260						265					270		
Ser	Ala	Val	Ser	Asp	Lys	Phe	Leu	Ser	Leu	Phe	Tyr	Thr	Ile	Ile	Thr
	275					280						285			
Pro	Val	Phe	Asn	Pro	Met	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile
	290					295					300				
Ala	Ala	Leu	Arg	Arg	Leu	Leu	Leu	Thr	Thr						
305					310										

<210> 2429  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2429

Met	Asn	Asn	Lys	Thr	Val	Phe	Ser	Gln	Phe	Leu	Leu	Leu	Gly	Leu	Pro
1			5						10					15	
Ile	Pro	Pro	Glu	His	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu	Ala	Met
			20					25					30		
Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Asn	Leu	Ile	Ile
	35					40						45			
Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser	Asn	Leu
	50					55					60				
Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys	Leu	Leu
65					70					75					80
Gln	Asn	Met	Gln	Ser	Gln	Asp	Thr	Ser	Ile	Thr	Tyr	Val	Gly	Cys	Leu
			85						90					95	
Thr	Gln	Met	Tyr	Phe	Leu	Leu	Val	Phe	Gly	Asp	Leu	Glu	Ser	Phe	Leu
		100						105					110		
Leu	Leu	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu
	115						120					125			
His	Tyr	Thr	Ser	Ile	Met	Ser	Leu	Lys	Leu	Cys	Val	Tyr	Leu	Val	Leu
	130					135					140				
Met	Ser	Trp	Val	Phe	Asn	Leu	Leu	Tyr	Ser	Met	Leu	His	Ser	Leu	Leu
145					150					155					160
Leu	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Asn	Val	Ile	Arg	His	Phe	Phe
			165						170					175	
Cys	Asp	Ile	Pro	Ala	Leu	Leu	Lys	Leu	Thr	Cys	Ser	Asp	Ile	His	Ile







<210> 2432  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2432  
 Met Pro Gly Lys Asn Gln Thr Val Ile Ser Arg Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Pro Ile Pro Pro Glu His Gln His Leu Phe Tyr Ala Leu Phe Leu  
 20 25 30  
 Ala Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Val Ile Ile Val Leu  
 35 40 45  
 Ile His Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Thr Asp Leu Cys Phe Ser Thr Val Thr Met Pro Asn  
 65 70 75 80  
 Phe Leu Gln Asn Met Gln Ser Gln Val Ser Ser Ile Pro Tyr Ala Gly  
 85 90 95  
 Cys Leu Ala Gln Met Tyr Phe Phe Leu Phe Phe Gly Asp Val Glu Ser  
 100 105 110  
 Leu Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe  
 115 120 125  
 Pro Leu His Tyr Thr Arg Ile Met Ser Pro Asn Leu Cys Val Ser Met  
 130 135 140  
 Val Leu Leu Ser Trp Ala Leu Thr Thr Leu Tyr Ala Met Leu His Thr  
 145 150 155 160  
 Leu Leu Leu Thr Arg Leu Ser Phe Cys Lys Asn Asn Val Ile Pro His  
 165 170 175  
 Phe Phe Cys Asp Leu Ser Ala Leu Leu Lys Leu Ala Cys Ser Asp Ile  
 180 185 190  
 His Ile Asn Glu Leu Met Ile Met Ile Ile Gly Ala Leu Val Val Ile  
 195 200 205  
 Leu Pro Phe Leu Leu Ile Ile Val Ser Tyr Ala His Ile Val Ser Ser  
 210 215 220  
 Ile Leu Lys Val Pro Ser Thr Arg Gly Ile His Lys Val Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Ser Val Ile  
 245 250 255  
 Val Leu Tyr Leu Cys Pro Ser Ser Asn Asn Ser Thr Val Lys Asp Thr  
 260 265 270  
 Val Met Ser Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu Lys Arg Val  
 290 295 300  
 Leu Gln Lys Lys Ile Lys Leu Ser  
 305 310

<210> 2433  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2433  
 Met Glu Arg Gly Asn Gln Thr Val Val Ser Glu Phe Leu Leu Leu Gly  
 1 5 10 15

Leu	Pro	Ile	Glu	Pro	His	Gln	Gln	Asp	Leu	Phe	Tyr	Ala	Leu	Phe	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Thr	Thr	Ala	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu
		35					40					45			
Ile	His	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Ser	Asp	Phe	Cys	Phe	Ser	Ser	Val	Thr	Ile	Pro	Lys
65					70					75					80
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Pro	Tyr	Ala	Gly
			85					90						95	
Cys	Leu	Ala	Gln	Met	Tyr	Phe	Phe	Leu	Leu	Phe	Ala	Asp	Leu	Glu	Ser
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
			115				120					125			
Pro	Leu	His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Leu	Cys	Leu
	130					135					140				
Val	Ala	Leu	Ser	Trp	Leu	Leu	Thr	Thr	Val	Ile	Ser	Leu	Ser	His	Thr
145					150					155					160
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Ala	Asn	Asn	Val	Ile	Pro	His
			165					170						175	
Phe	Phe	Cys	Asp	Met	Ser	Ala	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Ile
			180					185					190		
Gln	Ile	Asn	Lys	Leu	Met	Ile	Phe	Ile	Leu	Gly	Gly	Leu	Val	Ile	Ile
		195				200						205			
Val	Pro	Phe	Leu	Leu	Ile	Phe	Ser	Ser	Tyr	Ala	Arg	Ile	Val	Ser	Ser
	210					215					220				
Ile	Leu	Lys	Val	Pro	Ser	Ser	Arg	Ser	Ile	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile
			245					250						255	
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Ile	Lys	Glu	Thr
		260						265					270		
Val	Met	Ala	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
	275					280						285			
Ile	Tyr	Ser	Phe	Arg	Asn	Gln	Asp	Ile	Lys	Gly	Ala	Phe	Lys	Lys	Val
	290				295						300				
Phe	Ser	Lys	Gln	Met	Ala	Asn	Phe	Ser	Leu	Arg					
305					310					315					

<210> 2434  
 <211> 319  
 <212> PRT  
 <213> Mus musculus

<400> 2434

Met	Leu	Thr	Gly	Lys	Leu	Val	Leu	Asn	Gln	Ser	Gly	Thr	Pro	Glu	Phe
1				5					10					15	
Val	Phe	Arg	Val	Phe	Thr	Asn	Ala	Pro	Glu	Phe	Gln	Ala	Leu	Leu	Phe
			20					25					30		
Thr	Leu	Phe	Leu	Leu	Leu	Tyr	Leu	Met	Ile	Phe	Cys	Gly	Asn	Thr	Ala
		35				40						45			
Ile	Ile	Trp	Val	Val	Cys	Thr	His	Thr	Ser	Leu	His	Thr	Pro	Met	Tyr
	50				55						60				
Phe	Phe	Leu	Ser	Ser	Leu	Ser	Phe	Leu	Glu	Ile	Cys	Tyr	Thr	Thr	Asp
65					70					75					80
Val	Val	Pro	Leu	Met	Leu	Ser	Asn	Ile	Phe	Gly	Thr	Gln	Lys	Pro	Ile



Leu	Glu	Leu	Thr	Ala	Phe	Thr	Phe	Thr	Leu	Pro	Phe	Cys	Arg	His	Arg	
				165					170					175		
Leu	Glu	Ile	Asn	His	Phe	Leu	Cys	Asp	Val	Ala	Pro	Ile	Met	Arg	Leu	
			180					185					190			
Ala	Cys	Ala	Asp	Ile	His	Val	Asn	Gln	Ala	Val	Leu	Tyr	Val	Val	Ser	
		195					200					205				
Ile	Leu	Val	Leu	Thr	Val	Pro	Phe	Leu	Leu	Ile	Phe	Ile	Ser	Tyr	Val	
	210					215					220					
Phe	Ile	Ala	Ser	Thr	Ile	Leu	Arg	Met	His	Ser	Ala	Glu	Gly	Arg	Gln	
225					230					235					240	
Arg	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Leu	Thr	Val	Val	Leu	Leu	Gln	
				245					250					255		
Tyr	Gly	Cys	Cys	Ser	Leu	Val	Tyr	Leu	Arg	Pro	Arg	Ser	Ser	Thr	Ser	
			260					265					270			
Glu	Asp	Glu	Asp	Arg	Gln	Ile	Ala	Leu	Val	Tyr	Ile	Phe	Gly	Thr	Pro	
	275						280					285				
Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Asp	
	290					295					300					
Ala	Leu	Arg	Asn	Ser	Phe	His	Val	Pro	Ala	Ser	Asp	Thr	Ser			
305					310				315							

<210> 2436  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2436

Met	Ala	Asp	Ile	His	Asn	Val	Thr	Glu	Phe	Leu	Phe	Leu	Gly	Leu	Ser	
1				5					10					15		
Ser	Asn	Lys	Glu	Val	Glu	Ile	Val	Cys	Phe	Val	Ile	Phe	Leu	Leu	Leu	
		20						25					30			
Tyr	Met	Ala	Ile	Val	Leu	Gly	Asn	Leu	Leu	Met	Val	Val	Thr	Val	Val	
	35					40					45					
Ala	Ser	Arg	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Tyr	Leu	
	50					55				60						
Ser	Phe	Val	Glu	Ile	Cys	Tyr	Ser	Ser	Thr	Thr	Ala	Pro	Lys	Leu	Ile	
65				70					75					80		
Leu	Asp	Leu	Leu	Ala	Glu	Lys	Lys	Ser	Ile	Ser	Val	Trp	Gly	Cys	Met	
			85					90					95			
Thr	Gln	Leu	Phe	Phe	Met	His	Phe	Phe	Gly	Gly	Ala	Glu	Ile	Phe	Leu	
		100						105					110			
Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	
	115					120						125				
His	Tyr	Thr	Ser	Ile	Met	Asn	Arg	Asn	Val	Cys	Ala	Val	Leu	Val	Gly	
	130					135				140						
Thr	Ala	Trp	Ile	Gly	Gly	Phe	Val	His	Ser	Phe	Ala	Gln	Ile	Leu	Leu	
145				150					155					160		
Ile	Phe	Pro	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asp	His	Tyr	Phe	
			165					170					175			
Cys	Asp	Leu	Leu	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Phe	Leu	
		180					185					190				
Ile	Gly	Leu	Leu	Ile	Val	Ala	Asn	Ala	Gly	Thr	Leu	Ser	Val	Ile	Ser	
	195					200					205					
Phe	Val	Val	Leu	Leu	Ala	Ser	Tyr	Val	Val	Ile	Leu	Phe	His	Leu	Arg	
	210					215					220					
Thr	Gln	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser	

225					230					235				240
His	Val	Thr	Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Cys	Val	Phe	Ile
				245					250					255
Leu	Arg	Pro	Ser	Asp	Thr	Leu	Pro	Val	Asp	Lys	Met	Ile	Ala	Val
			260					265					270	
Tyr	Thr	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
		275					280					285		
Asn	Ala	Lys	Val	Lys	Lys	Thr	Met	Lys	Ser	Leu	Trp	Phe	Arg	Thr
	290					295					300			
Lys	Val	Asp	Glu	Lys										
305														

<210> 2437  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2437

Met	Ala	Asp	Ile	His	Asn	Val	Thr	Glu	Phe	Ile	Phe	Leu	Gly	Leu	Ser
1				5					10					15	
Ser	Asn	Gln	Glu	Val	Gln	Lys	Val	Cys	Phe	Val	Ile	Phe	Leu	Leu	Leu
			20					25					30		
Tyr	Met	Ala	Ile	Val	Leu	Gly	Asn	Leu	Leu	Met	Val	Val	Thr	Val	Val
		35				40						45			
Ala	Ser	Arg	Ser	Leu	Gly	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Tyr	Leu
	50					55					60				
Ser	Phe	Val	Glu	Ile	Cys	Tyr	Ser	Ser	Thr	Thr	Ala	Pro	Lys	Leu	Ile
65					70					75					80
Leu	Asp	Leu	Leu	Ala	Glu	Lys	Lys	Ser	Ile	Ser	Val	Trp	Gly	Cys	Met
				85					90					95	
Thr	Gln	Leu	Phe	Phe	Met	His	Phe	Phe	Gly	Gly	Thr	Glu	Ile	Phe	Leu
		100						105					110		
Leu	Thr	Met	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
	115					120						125			
His	Tyr	Thr	Ser	Ile	Met	Asn	Gln	Ser	Val	Cys	Ala	Val	Leu	Met	Gly
	130					135					140				
Thr	Ala	Trp	Ile	Gly	Gly	Phe	Val	His	Ser	Phe	Ala	Gln	Ile	Leu	Leu
145					150					155					160
Ile	Phe	Pro	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asp	His	Tyr	Phe
				165					170					175	
Cys	Asp	Leu	Leu	Pro	Val	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Phe	Leu
		180						185					190		
Ile	Gly	Leu	Leu	Ile	Val	Val	Asn	Gly	Gly	Thr	Leu	Ser	Val	Ile	Ser
	195						200					205			
Phe	Val	Val	Leu	Leu	Ala	Ser	Tyr	Gly	Val	Ile	Leu	Phe	His	Leu	Arg
	210					215					220				
Thr	Gln	Ser	Ala	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Gly	Ser
225					230					235					240
His	Val	Thr	Val	Val	Ile	Leu	Phe	Phe	Gly	Pro	Cys	Val	Phe	Ile	Tyr
				245					250					255	
Leu	Arg	Pro	Ser	Asp	Thr	Leu	Pro	Val	Asp	Lys	Met	Ile	Ala	Val	Phe
			260					265					270		
Tyr	Thr	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg
		275					280					285			
Asn	Ala	Glu	Val	Lys	Lys	Ala	Met	Lys	Ser	Leu	Trp	Phe	Arg	Thr	Met
	290					295					300				

Lys Val Asp Glu Lys  
305

<210> 2438  
<211> 309  
<212> PRT  
<213> Mus musculus

<400> 2438

Met	Glu	Asn	Lys	Arg	Asn	Val	Thr	Glu	Phe	Ile	Leu	Ile	Gly	Leu	Thr
1				5					10					15	
Gln	Asn	Pro	Gln	Met	Gln	Lys	Val	Val	Phe	Val	Thr	Phe	Leu	Val	Leu
			20					25					30		
Tyr	Met	Thr	Thr	Ile	Ser	Gly	Asn	Leu	Leu	Ile	Val	Val	Thr	Ile	Ile
		35					40					45			
Asn	Ser	Gln	Ala	Leu	Asn	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His	Leu
	50					55					60				
Ser	Leu	Ile	Asp	Thr	Ile	Tyr	Thr	Ser	Ser	Ser	Ala	Pro	Lys	Leu	Ile
65					70					75					80
Ala	Asp	Ser	Leu	Gln	Glu	Asn	Lys	Val	Ile	Ser	Phe	Asn	Gly	Cys	Met
				85					90					95	
Ala	Gln	Val	Tyr	Ala	Glu	His	Ile	Phe	Gly	Ala	Thr	Glu	Ile	Ile	Leu
			100					105					110		
Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
		115					120					125			
His	Tyr	Met	Thr	Ile	Met	Ser	His	Lys	Leu	Cys	Ile	Leu	Leu	Val	Gly
	130					135					140				
Val	Ala	Trp	Thr	Gly	Gly	Phe	Leu	His	Ala	Thr	Ile	Gln	Ile	Leu	Phe
145					150					155					160
Thr	Val	Trp	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asp	His	Phe	Met
				165					170					175	
Cys	Asp	Leu	Tyr	Pro	Leu	Leu	Glu	Leu	Val	Cys	Met	Asp	Thr	His	Ile
		180						185					190		
Leu	Gly	Leu	Phe	Val	Ala	Ala	Asn	Ser	Gly	Phe	Ile	Cys	Leu	Phe	Asn
	195						200					205			
Phe	Leu	Leu	Leu	Met	Gly	Ser	Tyr	Val	Ile	Ile	Leu	Arg	Ser	Leu	Lys
	210					215					220				
Asn	Tyr	Ser	Leu	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Ser	Thr	Cys	Val	Ser
225					230					235					240
His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Ile	Pro	Cys	Ile	Phe	Val	Tyr
			245						250					255	
Leu	Arg	Pro	Val	Thr	Thr	Leu	Pro	Leu	Asp	Lys	Gly	Val	Ala	Val	Phe
			260					265					270		
Tyr	Thr	Met	Val	Ala	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg
		275					280					285			
Asn	Ala	Glu	Val	Lys	Asn	Ala	Ile	Lys	Lys	Leu	Trp	Arg	Lys	Lys	Val
	290					295					300				
Thr	Ser	Asp	Ser	Asn											
305															

<210> 2439  
<211> 305  
<212> PRT  
<213> Mus musculus

<400> 2439

Met	Met	Asn	Gly	Thr	Leu	Val	Thr	Glu	Phe	Leu	Ile	Leu	Gly	Phe	Ser
1				5					10					15	
Glu	Met	Pro	His	Leu	Arg	Val	Pro	Leu	Leu	Phe	Ser	Phe	Leu	Cys	Leu
			20					25					30		
Tyr	Met	Ala	Ala	Ile	Ser	Gly	Asn	Leu	Leu	Ile	Met	Val	Thr	Ile	Ser
		35					40					45			
Ala	Ser	Pro	Ala	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Val	Asn	Leu
	50					55					60				
Ala	Ile	Val	Asp	Ile	Leu	Cys	Thr	Ser	Thr	Ile	Leu	Pro	Lys	Leu	Leu
65					70					75					80
Asp	Ser	Met	Met	Thr	Gly	Arg	Thr	Ile	Ser	Tyr	Gly	Gly	Cys	Met	Ala
				85					90					95	
Gln	Leu	Phe	Phe	Phe	Thr	Trp	Ser	Leu	Gly	Ala	Glu	Leu	Leu	Leu	Phe
			100					105					110		
Ser	Ala	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Cys	Pro	Leu	His
	115						120					125			
Tyr	Ser	Ala	Trp	Met	Gly	Pro	Arg	Val	Cys	Ala	Phe	Leu	Ala	Gly	Ile
	130				135						140				
Val	Trp	Thr	Ile	Ser	Leu	Thr	Asn	Thr	Ser	Val	His	Thr	Gly	Leu	Met
145					150					155					160
Leu	Arg	Leu	Pro	Phe	Cys	Ser	Ser	Asn	Val	Ile	Glu	His	Phe	Phe	Cys
				165					170					175	
Glu	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ala	Pro	Thr	Gln	Leu	Asn
			180					185					190		
Glu	Ala	Met	Ala	Phe	Ala	Ala	Asp	Val	Phe	Leu	Ala	Val	Gly	Asn	Phe
	195						200					205			
Ser	Val	Thr	Ile	Leu	Ser	Tyr	Gly	Phe	Ile	Val	Ala	Ser	Ile	Leu	Lys
	210					215					220				
Ile	Arg	Ser	Ala	Glu	Gly	Lys	Arg	Arg	Ala	Phe	Ser	Thr	Cys	Ser	Ala
225					230					235					240
His	Leu	Ile	Val	Val	Thr	Met	Tyr	Tyr	Ser	Thr	Val	Ile	Tyr	Thr	Tyr
				245					250					255	
Ile	Arg	Pro	Ser	Ser	Ser	Tyr	Ser	Leu	Asn	Lys	Asp	Lys	Val	Val	Ser
			260					265					270		
Ile	Ile	Tyr	Thr	Ser	Val	Ala	Pro	Thr	Leu	Asn	Pro	Leu	Ile	Tyr	Thr
	275						280					285			
Leu	Arg	Asn	Lys	Asp	Val	Lys	Val	Ala	Leu	Arg	Arg	Leu	Leu	Ser	Cys
	290					295					300				
Cys															
305															

<210> 2440

<211> 314

<212> PRT

<213> Mus musculus

<400> 2440

Met	Glu	Glu	Glu	Asn	Gln	Thr	Gly	Val	Val	Tyr	Phe	His	Phe	Arg	Pro
1				5					10					15	
Phe	Ser	Thr	Asn	Ser	Thr	Val	Ala	Ser	Leu	Val	Phe	Val	Gly	Phe	Leu
			20					25					30		
Leu	Leu	Tyr	Leu	Gly	Ser	Leu	Ile	Gly	Asn	Leu	Thr	Ile	Gly	Leu	Thr
		35					40					45			
Val	Trp	Gln	Asp	His	Ser	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe
	50					55					60				



Val	Leu	Ala	Thr	Leu	Glu	Leu	Gly	Tyr	Ser	Thr	Asn	Ile	Ala	Pro	Leu
65					70					75					80
Thr	Leu	Ala	Ser	Ile	Leu	Ser	Met	Gly	Lys	Met	Leu	Ile	Ser	Leu	Pro
				85					90					95	
Ser	Cys	Gly	Ala	Gln	Met	Phe	Phe	Phe	Ile	Leu	Leu	Gly	Gly	Ser	Asp
			100					105					110		
Cys	Val	Leu	Leu	Ala	Ile	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
		115					120					125			
His	Pro	Leu	His	Tyr	Ser	Leu	Ile	Met	Ser	Trp	Gln	Leu	Cys	Gly	Gln
	130					135					140				
Met	Ala	Leu	Gly	Ser	Leu	Gly	Leu	Gly	Phe	Leu	Leu	Ser	Leu	Pro	Leu
145					150					155					160
Thr	Ile	Leu	Ile	Cys	His	Leu	Pro	Phe	Cys	Gly	His	Asn	Glu	Ile	Tyr
				165					170					175	
His	Phe	Phe	Cys	Asp	Met	Pro	Ala	Val	Met	Arg	Leu	Ala	Cys	Thr	Asp
			180					185					190		
Thr	His	Ile	His	Gln	Ala	Ala	Leu	Phe	Ala	Ile	Ser	Val	Ala	Ala	Val
	195						200					205			
Ala	Ile	Pro	Phe	Leu	Leu	Ile	Cys	Leu	Ser	Tyr	Gly	Cys	Ile	Val	Ala
	210					215					220				
Thr	Ile	Leu	Arg	Met	Thr	Ser	Ala	Glu	Gly	Lys	Arg	Arg	Ala	Phe	Ser
225					230					235					240
Thr	Cys	Ser	Ser	His	Leu	Leu	Val	Val	Val	Leu	Gln	Tyr	Gly	Cys	Cys
				245					250					255	
Thr	Leu	Ile	Tyr	Leu	Arg	Pro	Ser	Ser	Ser	Tyr	Ser	Pro	Glu	Glu	Gly
			260					265					270		
Arg	Ala	Val	Ser	Val	Val	Tyr	Thr	Phe	Phe	Ser	Pro	Leu	Leu	Asn	Pro
	275						280					285			
Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Val	Thr	Asp	Ala	Val	Lys	Arg
	290					295					300				
Leu	Leu	Thr	Arg	Met	Phe	Trp	Phe	Arg	Lys						
305					310										

<210> 2441  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2441

Met	Glu	Pro	Gly	Asn	Tyr	Thr	Val	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Asp	Asp	Ile	Thr	Val	Ser	Val	Ile	Leu	Phe	Val	Met	Phe	Leu
		20					25					30			
Ile	Val	Tyr	Ser	Val	Thr	Leu	Met	Gly	Asn	Leu	Asn	Ile	Ile	Val	Leu
	35					40						45			
Ile	Arg	Thr	Ser	Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
His	Leu	Ala	Phe	Leu	Asp	Ile	Gly	Tyr	Ser	Ser	Ser	Val	Thr	Pro	Ile
65				70					75					80	
Met	Leu	Arg	Gly	Phe	Leu	Arg	Lys	Gly	Thr	Phe	Ile	Pro	Val	Ala	Gly
			85					90					95		
Cys	Val	Ala	Gln	Leu	Cys	Ile	Val	Val	Ala	Phe	Gly	Thr	Ser	Glu	Ser
		100						105				110			
Phe	Leu	Leu	Ala	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser
	115					120						125			
Pro	Leu	Leu	Tyr	Ser	Thr	Gln	Met	Ser	Ser	Thr	Val	Cys	Ile	Leu	Leu

130	135	140
Val Gly Thr Ser Tyr	Leu Gly Gly Trp Val	Asn Ala Trp Ile Phe Thr
145	150	155
Gly Cys Ser Leu Asn	Leu Ser Phe Cys Gly	Pro Asn Lys Ile Asn His
165	170	175
Phe Phe Cys Asp Tyr	Ser Pro Leu Leu Lys	Leu Ser Cys Ser His Asp
180	185	190
Phe Ser Phe Glu Val	Ile Pro Ala Ile Ser	Ser Gly Ser Ile Ile Val
195	200	205
Val Thr Val Phe Ile	Ile Ala Leu Ser Tyr	Val Tyr Ile Leu Val Ser
210	215	220
Ile Leu Lys Met Arg	Ser Thr Glu Gly Arg	Gln Lys Ala Phe Ser Thr
225	230	235
Cys Thr Ser His Leu	Thr Ala Val Thr Leu	Phe Phe Gly Thr Ile Thr
245	250	255
Phe Ile Tyr Val Met	Pro Gln Ser Ser Tyr	Ser Thr Asp Gln Asn Lys
260	265	270
Val Val Ser Val Phe	Tyr Thr Val Val Ile	Pro Met Leu Asn Pro Leu
275	280	285
Ile Tyr Ser Phe Arg	Asn Lys Glu Val Lys	Glu Ala Met Lys Lys Leu
290	295	300
Ile Ala Lys Thr His	Trp Trp Ser	
305	310	

<210> 2442  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2442

Met Glu Lys Ser Ser	Asn Ile Thr Val	Phe Ile Leu Leu	Gly Leu Ser
1	5	10	15
Gln Asn Lys Asn Thr	Glu Ile Leu Cys	Phe Val Leu Phe	Phe Leu Phe
20	25	30	
Cys Tyr Ile Ala Ile	Trp Met Gly Asn	Val Leu Ile Met	Val Ser Ile
35	40	45	
Thr Cys Thr His Leu	Val Glu Gln Pro	Met Tyr Phe Phe	Leu Asn Tyr
50	55	60	
Leu Ser Leu Ser Asp	Leu Cys Tyr Thr	Ser Thr Val Thr	Pro Lys Leu
65	70	75	80
Met Thr Asp Leu Leu	Ala Glu Arg Lys	Val Ile Ser Tyr	Asn Asn Cys
85	90	95	
Met Ile Gln Leu Phe	Thr Thr His Leu	Phe Gly Gly Ile	Glu Ile Phe
100	105	110	
Ile Leu Thr Gly Met	Ala Tyr Asp Arg	Tyr Val Ala Ile	Cys Arg Pro
115	120	125	
Leu His Tyr Thr Ile	Ile Met Ser Arg	His Arg Cys Asn	Leu Ile Ile
130	135	140	
Met Thr Cys Cys Thr	Gly Gly Phe Val	His Ser Ala Ser	Gln Leu Leu
145	150	155	160
Leu Thr Val Phe Leu	Pro Phe Cys Gly	Pro Asn Glu Ile	Asp His Tyr
165	170	175	
Phe Cys Asp Val Tyr	Pro Leu Leu Lys	Leu Ala Cys Ser	Asn Thr His
180	185	190	
Ile Ile Gly Leu Leu	Val Ile Ala Asn	Ser Gly Leu Ile	Ala Leu Val
195	200	205	

Thr	Phe	Val	Val	Leu	Met	Thr	Ser	Tyr	Phe	Phe	Ile	Leu	Tyr	Thr	Ile
210						215					220				
Arg	Ala	Tyr	Ser	Ala	Glu	Ser	Arg	Ser	Lys	Ala	Leu	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Leu	Thr	Val	Val	Val	Leu	Phe	Phe	Ala	Pro	Ala	Leu	Phe	Ile
				245					250					255	
Tyr	Ile	Arg	Pro	Ala	Thr	Thr	Phe	Pro	Glu	Asp	Lys	Val	Phe	Ala	Leu
			260					265					270		
Phe	Tyr	Thr	Ile	Ile	Ala	Pro	Met	Phe	Asn	Pro	Leu	Ile	Tyr	Thr	Leu
		275					280					285			
Arg	Asn	Thr	Glu	Met	Lys	Asn	Ala	Leu	Arg	Lys	Val	Trp	Gly	His	Gln
	290					295					300				
Gly	Leu	Leu	Lys	Gly	Arg										
305					310										

<210> 2443  
 <211> 322  
 <212> PRT  
 <213> Mus musculus

<400> 2443

His	Thr	Asn	Ser	Thr	Lys	Ile	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Arg	Pro	Glu	Leu	Gln	Pro	Leu	Leu	Phe	Val	Leu	Phe	Leu	Phe	Ile
			20					25					30		
Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Met	Gly	Leu	Met	Ala	Leu	Ile	Arg
	35					40						45			
Leu	Asp	Ser	Arg	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Leu
	50					55					60				
Ala	Phe	Val	Asp	Leu	Cys	Tyr	Thr	Ser	Thr	Ala	Thr	Pro	Gln	Met	Leu
65					70					75					80
Thr	Asn	Phe	Leu	Ser	Glu	Lys	Lys	Thr	Ile	Ser	Phe	Ile	Gly	Cys	Phe
			85						90					95	
Ile	Gln	Cys	Tyr	Leu	Phe	Ile	Ala	Leu	Leu	Leu	Thr	Glu	Phe	Tyr	Met
		100						105					110		
Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu
	115					120						125			
Arg	Tyr	Ser	Val	Lys	Met	Ser	Arg	Arg	Val	Cys	Ile	Cys	Leu	Ala	Met
	130					135					140				
Cys	Pro	Tyr	Ile	Tyr	Gly	Phe	Ser	Asp	Gly	Leu	Phe	Gln	Ala	Ile	Leu
145					150					155					160
Thr	Phe	Ser	Met	Thr	Phe	Cys	Lys	Ser	Asn	Val	Ile	Asn	His	Phe	Tyr
			165						170					175	
Cys	Ala	Asp	Pro	Pro	Leu	Ile	Lys	Leu	Ser	Cys	Ser	Asp	Thr	Tyr	Lys
		180						185					190		
Lys	Glu	His	Ala	Met	Leu	Ile	Ser	Ala	Ser	Phe	Asn	Leu	Ser	Ser	Ser
	195						200					205			
Leu	Thr	Ile	Ile	Leu	Val	Ser	Tyr	Ala	Phe	Ile	Ile	Ala	Ala	Ile	Leu
	210					215					220				
Arg	Ile	Lys	Ser	Ala	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr	Cys	Gly
225					230					235					240
Ser	His	Met	Met	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Leu	Phe	Cys	Met
			245						250					255	
Tyr	Val	Arg	Pro	Pro	Thr	Asp	Lys	Thr	Val	Glu	Glu	Ser	Lys	Ile	Ile
		260						265					270		
Ala	Val	Phe	Tyr	Thr	Phe	Val	Ser	Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr



<210> 2445  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<400> 2445

Met	Glu	Glu	Gly	Asn	Gln	Thr	Val	Val	Ser	Glu	Phe	Ile	Phe	Gln	Gly
1				5					10					15	
Leu	Cys	Ala	Ser	Lys	Glu	Leu	Gln	Leu	Phe	Leu	Leu	Leu	Pro	Phe	Ser
			20					25					30		
Ile	Leu	Tyr	Leu	Met	Ala	Val	Val	Gly	Asn	Leu	Phe	Val	Val	Ile	Leu
		35					40					45			
Ile	Ile	Ile	Asp	His	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala
		50				55					60				
Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys	Leu	Ser	Ser	Val	Thr	Thr	Pro	Lys
65					70					75					80
Leu	Ile	Thr	Asp	Leu	Lys	Asp	Asn	Lys	Thr	Ile	Ser	Phe	Gly	Gly	
			85					90					95		
Cys	Met	Ser	Gln	Ile	Leu	Cys	Val	Tyr	Phe	Phe	Gly	Gly	Ser	Glu	Met
			100					105					110		
Val	Leu	Leu	Val	Thr	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg
			115				120					125			
Pro	Leu	His	Tyr	Ser	Ser	Ile	Met	Gly	Arg	Gln	Lys	Cys	Ile	Trp	Leu
						135					140				
Val	Val	Ile	Ser	Trp	Thr	Ile	Gly	Phe	Ile	His	Ala	Met	Ser	Gln	Leu
145					150					155					160
Ile	Leu	Ile	Leu	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Arg	Val	Ile	Asp	Ser
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Ser	Leu	Val	Met	Lys	Leu	Ala	Cys	Met	Asn	Thr
			180					185					190		
Asp	Thr	Leu	Glu	Ile	Leu	Ile	Asn	Ala	Asp	Ser	Gly	Val	Leu	Ala	Thr
			195				200					205			
Thr	Cys	Phe	Ile	Leu	Leu	Leu	Ile	Ser	Tyr	Thr	Asn	Ile	Leu	Leu	Thr
			210			215					220				
Val	Gln	Leu	His	Ser	Lys	Asp	Gly	Ser	Ser	Lys	Ala	Leu	Ser	Thr	Cys
225					230					235					240
Thr	Ser	His	Ile	Ile	Val	Val	Leu	Leu	Phe	Phe	Gly	Pro	Val	Ile	Phe
				245					250					255	
Ile	Tyr	Leu	Cys	Pro	Val	Ser	Ile	Thr	Trp	Val	Asp	Asn	Phe	Leu	Ala
			260					265					270		
Val	Phe	Tyr	Ser	Val	Ile	Thr	Pro	Leu	Leu	Asn	Pro	Ala	Ile	Tyr	Thr
			275				280					285			
Leu	Arg	Asn	Lys	Asp	Ile	Lys	Asn	Ala	Ile	Lys	Lys	Leu	Ile	Asn	His
			290			295					300				
Leu															
305															

<210> 2446  
 <211> 277  
 <212> PRT  
 <213> Mus musculus

<400> 2446

Leu	Pro	Phe	Ser	Ile	Leu	Tyr	Leu	Met	Ala	Val	Val	Gly	Asn	Leu	Phe
1				5					10					15	
Val	Val	Ile	Leu	Ile	Ile	Ile	Asp	His	His	Leu	His	Ser	Pro	Met	Tyr



				85					90					95			
Val	His	Phe	Phe	Gly	Gly	Ser	Glu	Met	Val	Leu	Leu	Val	Thr	Met	Ala		
			100					105						110			
Tyr	Asp	Gln	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu	His	Cys	Ser	Gly	Ser		
		115					120					125					
Met	Asp	Arg	Gln	Lys	Cys	Ile	Trp	Leu	Val	Val	Ile	Ser	Trp	Ile	Val		
		130				135					140						
Gly	Phe	Val	His	Ala	Ile	Ser	Gln	Leu	Leu	Leu	Ile	Leu	Asp	Leu	Pro		
145					150					155					160		
Phe	Cys	Gly	Pro	Arg	Val	Ile	Asp	Ser	Phe	Phe	Cys	Asn	Ile	Pro	Leu		
				165					170					175			
Val	Met	Lys	Leu	Ala	Cys	Met	Asn	Thr	Asp	Thr	Leu	Gly	Ile	Leu	Ile		
			180					185					190				
Asn	Ala	Asp	Ser	Gly	Ile	Leu	Ala	Thr	Tyr	Ser	Phe	Thr	Leu	Leu	Leu		
		195					200					205					
Ile	Ser	Tyr	Thr	Tyr	Ile	Leu	Leu	Thr	Val	Gln	His	Arg	Ser	Lys	Asp		
	210				215						220						
Gly	Ser	Leu	Lys	Ala	Leu	Ser	Thr	Cys	Thr	Ser	His	Ile	Ile	Val	Val		
225					230					235					240		
Leu	Leu	Phe	Phe	Gly	Pro	Ile	Ile	Phe	Ile	Tyr	Leu	Trp	Pro	Val	Asn		
				245				250					255				
Ile	Thr	Trp	Val	Asp	Lys	Phe	Leu	Ala	Val	Phe	Tyr	Thr	Val	Ile	Thr		
			260					265					270				
Pro	Leu	Leu	Asn	Pro	Ala	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Asp	Ile	Lys		
		275					280					285					
Asn	Ala	Ile	Lys	Asn													
		290															

<210> 2448  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2448

Leu	His	Gly	Glu	Thr	Glu	Pro	Ser	Pro	Val	Val	Lys	Asp	Phe	Ile	Leu		
1				5					10					15			
Ile	Gly	Ile	Thr	Asn	Arg	Pro	Glu	Leu	Lys	Gly	Pro	Leu	Phe	Gly	Leu		
			20					25					30				
Phe	Leu	Ile	Ile	Tyr	Leu	Ile	Ser	Leu	Met	Gly	Asn	Met	Gly	Met	Ile		
		35					40					45					
Ile	Leu	Thr	Ile	Val	Asp	Pro	Arg	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe		
	50					55				60							
Leu	Lys	His	Leu	Ala	Val	Thr	Asp	Leu	Gly	Tyr	Ser	Thr	Ala	Val	Gly		
65					70					75					80		
Pro	Lys	Met	Leu	Glu	Asn	Phe	Val	Val	Asn	Gln	Asn	Thr	Ile	Ser	Tyr		
				85				90					95				
Tyr	Leu	Cys	Ala	Leu	Gln	Leu	Ala	Cys	Phe	Leu	Leu	Phe	Ile	Thr	Cys		
		100						105					110				
Glu	Leu	Phe	Ile	Leu	Ser	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile		
		115					120					125					
Cys	Asn	Pro	Leu	Leu	Tyr	Asn	Val	Ile	Met	Ser	Lys	Lys	Lys	Cys	Trp		
	130					135					140						
Leu	Leu	Ile	Val	Ile	Ala	Tyr	Leu	Tyr	Gly	Leu	Phe	Leu	Ser	Leu	Ile		
145					150					155					160		
Ile	Thr	Leu	Lys	Met	Phe	Arg	Leu	Ser	Phe	Cys	Ser	Tyr	Asn	Ile	Ile		
			165						170					175			

Asn	His	Phe	Phe	Cys	Asp	Cys	Ile	Pro	Leu	Ile	Pro	Leu	Leu	Cys	Ser
			180					185					190		
Asn	Thr	His	Glu	Ile	Gln	Leu	Ile	Ile	Leu	Val	Phe	Ala	Ile	Phe	Asp
		195					200					205			
Ser	Ile	Cys	Ser	Leu	Leu	Val	Val	Leu	Val	Ser	Tyr	Leu	Leu	Ile	Leu
	210					215					220				
Ile	Thr	Ile	Leu	Arg	Met	Asn	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala	Phe
	225				230					235					240
Ala	Asn	Cys	Gly	Ser	His	Ile	Thr	Val	Val	Thr	Val	Phe	Tyr	Gly	Thr
			245						250					255	
Leu	Ile	Ser	Met	Tyr	Leu	Gln	Pro	Asn	Tyr	Ser	His	Ser	Phe	Asp	Thr
			260					265					270		
Asp	Lys	Leu	Ala	Ser	Ile	Phe	Tyr	Thr	Met	Ile	Ile	Pro	Met	Leu	Asn
	275						280					285			
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asn	Ala	Gly	Gln
	290					295					300				
Arg	Ile	Trp	Lys	Lys	Leu	Cys	Lys	Ile							
	305				310										

<210> 2449

<211> 316

<212> PRT

<213> Mus musculus

<400> 2449

Met	Asp	Leu	Lys	Asn	Lys	Thr	Thr	Ser	Ser	Phe	Ile	Leu	Leu	Gly	Leu
1				5				10						15	
Phe	Pro	Ser	Cys	Arg	Tyr	Pro	Asn	Leu	Leu	Ile	Ser	Phe	Ile	Leu	Leu
			20				25					30			
Ile	Tyr	Thr	Leu	Ala	Ser	Ala	Gly	Asn	Ser	Leu	Leu	Ile	Leu	Leu	Ile
	35					40						45			
Trp	Leu	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser	Gln
	50				55					60					
Leu	Ser	Val	Ile	Asp	Leu	Ala	Tyr	Ile	Ser	Cys	Thr	Val	Pro	Lys	Ala
65				70					75					80	
Ala	Ile	Asn	Tyr	Phe	Thr	Gly	Arg	Arg	Asn	Ile	Ser	Phe	Phe	Ala	Cys
			85					90					95		
Ala	Thr	Gln	Met	Phe	Ser	Phe	Leu	Thr	Leu	Gly	Leu	Ala	Glu	Cys	Ile
		100					105					110			
Leu	Leu	Thr	Leu	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Asn	Pro
	115					120					125				
Leu	Arg	Tyr	Thr	Ile	Leu	Met	Ser	Pro	Lys	Val	Cys	Leu	Met	Met	Ala
	130				135					140					
Ala	Ser	Thr	Trp	Ile	Gly	Ala	Val	Thr	Ala	Ala	Leu	Val	His	Thr	Val
	145			150					155					160	
Tyr	Pro	Met	Asn	Phe	Pro	Ile	Cys	Gly	Ser	Arg	Glu	Ile	Asn	His	Tyr
			165					170					175		
Phe	Cys	Glu	Met	Pro	Ala	Ile	Leu	Arg	Met	Ser	Cys	Val	Asp	Thr	Ser
		180					185					190			
Val	Tyr	Glu	Met	Val	Lys	Phe	Val	Ser	Thr	Ile	Ile	Phe	Leu	Leu	Thr
	195					200					205				
Pro	Phe	Thr	Leu	Ile	Leu	Thr	Ser	Tyr	Thr	Leu	Ile	Phe	Leu	Thr	Val
	210				215					220					
Leu	Arg	Met	Asn	Ser	Pro	Lys	Gly	Arg	Asn	Lys	Ala	Leu	Ala	Thr	Cys
	225			230					235					240	
Ser	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Tyr	Phe	Gly	Gln	Ala	Ile	Phe



Ile	Tyr	Met	Thr	245	Thr	Ser	Ser	His	250	Thr	Pro	Asp	Gln	Asp	255	Gln	Val
			260					265						270			
Gly	Ala	Val	Leu	Gly	Thr	Ile	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile		
		275					280					285					
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Ile	Gly	Ala	Leu	Gln	Lys	Cys	Thr		
	290					295					300						
Gly	Arg	Cys	Cys	Ser	Arg	Asp	Arg	Val	Gly	Ser	Leu						
305					310					315							

<210> 2450  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2450

Met	Gly	Ala	Thr	Asn	Asp	Ser	Thr	Phe	Ser	His	Phe	Ile	Leu	Thr	Gly		
1				5				10					15				
Phe	Ser	Asp	Arg	Pro	Glu	Leu	Glu	Arg	Val	Leu	Phe	Ala	Ile	Leu	Leu		
		20					25					30					
Pro	Ala	Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Ser	Thr	Ile	Ile	Leu	Val		
		35				40					45						
Ser	Arg	Leu	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr		
	50					55				60							
His	Leu	Ser	Phe	Leu	Asp	Leu	Ser	Phe	Thr	Ser	Ser	Ser	Ile	Pro	Gln		
65				70				75						80			
Leu	Leu	Tyr	Asn	Leu	Ser	Gly	Pro	Asp	Lys	Thr	Ile	Ser	Tyr	Val	Gly		
			85					90						95			
Cys	Ala	Leu	Gln	Leu	Val	Leu	Phe	Leu	Gly	Leu	Gly	Gly	Val	Glu	Cys		
		100						105					110				
Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Lys		
		115				120					125						
Pro	Leu	His	Tyr	Met	Val	Ile	Met	Ser	Pro	Arg	Leu	Cys	Val	Gly	Leu		
	130					135					140						
Val	Ser	Val	Ala	Trp	Ser	Cys	Gly	Val	Ala	Asn	Ser	Leu	Ala	Met	Ser		
145				150						155				160			
Pro	Ala	Thr	Leu	Ser	Leu	Pro	Arg	Cys	Gly	His	His	Arg	Val	Asp	His		
			165					170						175			
Phe	Leu	Cys	Glu	Met	Pro	Ala	Leu	Ile	Arg	Met	Ala	Cys	Val	Asn	Thr		
		180						185					190				
Ala	Val	Val	Glu	Gly	Ile	Ala	Phe	Ile	Leu	Ala	Ile	Gly	Ile	Val	Leu		
		195					200					205					
Ser	Pro	Leu	Val	Phe	Ile	Leu	Val	Ser	Tyr	Gly	Tyr	Ile	Val	Arg	Ala		
	210					215					220						
Val	Leu	Arg	Ile	Ser	Ser	Ala	Ala	Gly	Arg	Gln	Lys	Ala	Phe	Asn	Thr		
225				230						235				240			
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr	Gly	Asn	Ile	Ile		
			245					250					255				
Tyr	Met	Tyr	Met	Gln	Pro	Gly	Asn	Ser	Ser	Ser	Gln	Asp	Gln	Gly	Lys		
		260					265						270				
Phe	Leu	Thr	Leu	Phe	Tyr	Asn	Ile	Val	Thr	Pro	Leu	Leu	Asn	Pro	Leu		
		275					280						285				
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Leu	Arg	Arg	Leu		
	290					295					300						
Leu	Leu	Gly	Ser	Arg	Glu	Thr	Gly	Lys	Val	Arg							
305					310					315							

<210> 2451  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2451  
 Met Glu Gly Ala Asn Leu Ser Gly Val Ser Glu Phe Leu Leu Leu Gly  
 1 5 10 15  
 Leu Ser Gln Asp Pro Arg Gln Gln Gln Leu Leu Phe Ser Ala Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Leu Thr Gly Leu Gly Asn Leu Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Ala Ala Asp Pro Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 50 55 60  
 Asn Leu Ala Phe Val Asp Val Cys Phe Thr Ser Thr Thr Ile Pro Lys  
 65 70 75 80  
 Met Leu Ala Asn His Val Ser Gly His Lys Gly Ile Ser Tyr Ser Gly  
 85 90 95  
 Cys Leu Thr Gln Met Phe Phe Phe Ile Trp Phe Ala Gly Ile Asp Ser  
 100 105 110  
 Phe Leu Leu Thr Ala Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Thr Thr Ser Ile Thr Pro Arg Leu Cys Gly Phe Leu  
 130 135 140  
 Val Thr Ala Ser Trp Ala Ser Ala Phe Ala Asn Ala Leu Thr His Thr  
 145 150 155 160  
 Val Leu Leu Thr Arg Leu Leu Phe Cys Gly His Asn Gln Val Pro His  
 165 170 175  
 Phe Phe Cys Asp Leu Ser Pro Leu Leu Lys Leu Ala Cys Leu Asp Thr  
 180 185 190  
 Ser Leu Asn Asp Ile Met Val Tyr Thr Val Gly Ala Leu Pro Ile Ile  
 195 200 205  
 Thr Pro Phe Val Gly Ile Leu Thr Ser Tyr Thr Arg Ile Phe Thr Ala  
 210 215 220  
 Val Leu Arg Ile Pro Ser Thr Gly Gly Lys Trp Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Leu Ile  
 245 250 255  
 Gly Val Tyr Phe Ser Pro Thr Ser Ser His Thr Ala Gln Lys Asp Thr  
 260 265 270  
 Ala Ala Ala Val Met Tyr Thr Val Val Thr Pro Met Met Asn Pro Phe  
 275 280 285  
 Ile Tyr Thr Leu Arg Asn Lys Asp Met Lys Gly Ala Leu Met Thr Phe  
 290 295 300  
 Val Arg Arg Thr Ala Val Leu Val Arg  
 305 310

<210> 2452  
 <211> 326  
 <212> PRT  
 <213> Mus musculus

<400> 2452  
 Met Phe Ser Asp Asp Pro Val Gln Gln Leu Ser Met Ala Met Trp Leu

1				5					10					15			
Asn	Gln	Ser	Ser	Thr	Asp	Asp	Phe	Ile	Leu	Leu	Gly	Ile	Phe	Ser	Tyr		
			20					25					30				
Ser	Pro	Arg	Asp	Leu	Leu	Leu	Phe	Ser	Val	Val	Met	Leu	Val	Phe	Thr		
		35					40					45					
Ala	Ala	Leu	Phe	Gly	Asn	Ala	Leu	Leu	Ile	Leu	Leu	Ile	Cys	Thr	Asp		
	50					55					60						
Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Gln	Leu	Ser	Leu		
65					70					75					80		
Met	Asp	Ile	Met	Leu	Val	Cys	Thr	Asn	Val	Pro	Lys	Met	Ala	Val	Asn		
			85					90					95				
Phe	Leu	Ser	Gly	Lys	Lys	Ser	Ile	Ser	Phe	Val	Gly	Cys	Gly	Ile	Gln		
			100				105						110				
Ile	Gly	Leu	Phe	Val	Cys	Leu	Val	Gly	Ser	Glu	Gly	Leu	Leu	Leu	Gly		
	115					120						125					
Leu	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Ser	His	Pro	Leu	Arg	Tyr		
	130					135					140						
Pro	Val	Leu	Met	Asn	Gln	Lys	Val	Cys	Leu	Gln	Ile	Ile	Gly	Ser	Ser		
145					150					155					160		
Trp	Ala	Phe	Gly	Ile	Ala	Asp	Gly	Leu	Val	Gln	Met	Val	Val	Val	Met		
			165					170							175		
Thr	Phe	Pro	Tyr	Cys	Ser	Leu	Arg	Glu	Val	Asp	His	Phe	Phe	Cys	Glu		
			180					185					190				
Met	Leu	Ser	Leu	Leu	Lys	Leu	Ala	Cys	Val	Asp	Thr	Ser	Leu	Phe	Glu		
	195					200						205					
Lys	Ile	Val	Phe	Phe	Cys	Cys	Ile	Phe	Met	Leu	Leu	Phe	Pro	Phe	Ser		
	210					215					220						
Ile	Ile	Val	Ala	Ser	Tyr	Thr	Arg	Ile	Leu	Gly	Thr	Val	Leu	His	Met		
225					230					235					240		
His	Ser	Ala	Lys	Ser	Gln	Lys	Lys	Ala	Leu	Ala	Thr	Cys	Ser	Ser	His		
			245					250						255			
Met	Ala	Ala	Val	Ser	Phe	Phe	Tyr	Gly	Ala	Ala	Met	Phe	Ile	Tyr	Leu		
		260						265					270				
Arg	Pro	Arg	Gln	Tyr	Arg	Thr	Pro	Ser	Gln	Asp	Lys	Met	Val	Ser	Ile		
		275					280					285					
Phe	Tyr	Thr	Val	Leu	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu		
	290					295					300						
Arg	Asn	Arg	Asp	Val	Ile	Gly	Ala	Leu	Gln	Lys	Gly	Leu	Asp	Arg	Cys		
305					310					315					320		
Arg	Val	Gly	Ser	Gln	Pro												
				325													

<210> 2453  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2453  
 Met Leu Met Ala Met Glu Asn Asp Ser Ser Val Thr Glu Phe Val Phe  
 1 5 10 15  
 Met Gly Leu Thr Glu Gln Pro Glu Leu Gln Leu Pro Leu Phe Phe Val  
 20 25 30  
 Phe Leu Leu Asn Tyr Thr Ala Thr Val Met Gly Asn Leu Ser Leu Val  
 35 40 45  
 Val Leu Ile Cys Leu Asn Ser His Leu His Asn Pro Met Tyr Phe Phe  
 50 55 60

Leu	Phe	Asn	Leu	Ser	Leu	Val	Asp	Phe	Cys	Tyr	Ser	Phe	Val	Cys	Thr	65	70	75	80
Pro	Lys	Met	Leu	Met	Gly	Phe	Val	Ser	Glu	Lys	Ser	Ile	Ile	Ser	Tyr	85	90	95	
Thr	Gly	Cys	Met	Thr	Gln	Leu	Phe	Phe	Phe	Cys	Phe	Phe	Val	Asn	Ser	100	105	110	
Glu	Cys	Tyr	Val	Leu	Thr	Ala	Met	Val	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	115	120	125	
Cys	Lys	Pro	Leu	Val	Tyr	Ala	Ile	Leu	Met	Ser	Pro	Arg	Met	Cys	Ser	130	135	140	
Leu	Leu	Met	Ile	Gly	Ser	Tyr	Leu	Met	Gly	Phe	Ala	Ser	Ala	Met	Ala	145	150	155	160
His	Thr	Gly	Cys	Met	Ile	Arg	Leu	Lys	Phe	Cys	Asp	Leu	Asn	Ile	Ile	165	170	175	
Asn	His	Tyr	Met	Cys	Glu	Ile	Phe	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Ser	180	185	190	
Ser	Thr	Tyr	Ala	Asn	Glu	Leu	Val	Ser	Ser	Leu	Ile	Ala	Cys	Ile	Val	195	200	205	
Val	Ile	Val	Ser	Gly	Leu	Val	Ile	Leu	Met	Ser	Tyr	Ala	Ser	Ile	Leu	210	215	220	
Leu	Asn	Val	Val	Gln	Met	Ser	Ser	Ala	Thr	Gly	Trp	Ser	Lys	Ala	Met	225	230	235	240
Gly	Thr	Cys	Gly	Ser	His	Ile	Ile	Thr	Val	Ser	Leu	Phe	Tyr	Gly	Ser	245	250	255	
Gly	Leu	Leu	Thr	Tyr	Val	Lys	Pro	Ala	Ser	Ala	Glu	Ser	Val	Asp	Gln	260	265	270	
Gly	Lys	Phe	Phe	Ser	Val	Phe	Tyr	Thr	Leu	Met	Val	Pro	Met	Leu	Asn	275	280	285	
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Leu	Ala	Ala	Lys	290	295	300	
Arg	Thr	Met	Lys	Arg	Ile	Thr	Ile									305	310		

<210> 2454  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2454

Met	Glu	Leu	Lys	Asn	Asp	Thr	Gln	Ile	Ser	Lys	Phe	Ile	Leu	Leu	Gly	1	5	10	15
Ile	Ser	Glu	Asp	Pro	Leu	Trp	Gln	Pro	Phe	Leu	Phe	Gly	Leu	Phe	Leu	20	25	30	
Phe	Met	Tyr	Leu	Val	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Ile	Ala	35	40	45	
Thr	Ile	Thr	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	50	55	60	
Asn	Leu	Ser	Phe	Ala	Asp	Ile	Cys	Phe	Thr	Ser	Ala	Ser	Ile	Pro	Lys	65	70	75	80
Met	Leu	Val	Asn	Ile	Gln	Thr	Lys	Asn	Lys	Val	Ile	Thr	Tyr	Glu	Gly	85	90	95	
Cys	Ile	Ser	Gln	Val	Phe	Phe	Phe	Ile	Leu	Phe	Gly	Val	Leu	Asp	Asn	100	105	110	
Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	115	120	125	
Pro	Leu	His	Tyr	Met	Val	Ile	Met	Asn	Cys	Arg	Leu	Cys	Gly	Phe	Leu				

130		135		140
Val Leu Gly Ser Trp	Val Thr Thr Ala Leu Asn Ser Leu Leu Gln Ser			
145	150	155		160
Ser Met Ala Leu Arg	Leu Ser Phe Cys Thr Asp Leu Lys Ile Pro His			
	165	170		175
Phe Val Cys Glu Leu Asn Gln Leu Val Leu Leu Ala Cys Asn Asp Thr				
	180	185		190
Phe Pro Asn Asp Met Val Met Tyr Phe Ala Ala Ile Leu Leu Gly Gly				
	195	200		205
Gly Pro Leu Ala Gly Ile Leu Tyr Ser Tyr Ser Lys Ile Val Ser Ser				
	210	215		220
Ile Arg Ala Ile Ser Ser Ser Gln Gly Lys Tyr Lys Ala Phe Ser Thr				
225	230	235		240
Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Ser Thr Leu Leu				
	245	250		255
Gly Val Tyr Leu Ser Ser Ser Phe Thr Gln Asn Ser His Ser Thr Ala				
	260	265		270
Arg Ala Ser Val Met Tyr Ser Val Val Thr Pro Met Leu Asn Pro Phe				
	275	280		285
Ile Tyr Ser Leu Arg Asn Lys Asp Leu Met Gly Ala Leu Arg Arg Leu				
	290	295		300
Leu Arg Arg Lys Ser				
305				

<210> 2455  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2455

Met Trp Val Val Leu Gly Gln Asn Gln Ser Trp Val Ser Glu Phe Ile				
1	5	10	15	
Leu Ile Gly Phe Ser Ser Asp Pro Thr Thr Asn Ser Ile Leu Phe Ile				
	20	25	30	
Val Phe Leu Leu Ile Tyr Leu Ser Val Leu Gly Asn Gly Leu Ile				
	35	40	45	
Ile Met Leu Val Cys Leu Asp Thr Gln Leu His Thr Pro Met Tyr Phe				
50	55	60		
Phe Leu Ser Thr Leu Ser Leu Leu Asp Met Ser Tyr Val Thr Thr Thr				
65	70	75	80	
Met Pro Gln Met Leu Val His Leu Leu Ala His Ser Gln Thr Ile Ser				
	85	90	95	
Phe Val Gly Cys Trp Leu Gln Met Phe Val Phe Ser Ala Leu Gly Ile				
	100	105	110	
Thr Glu Cys Thr Phe Phe Val Val Met Ala Tyr Asp Arg Tyr Val Ala				
	115	120	125	
Ile Cys Tyr Pro Leu Arg Tyr Thr Val Ile Leu Asn Trp Gly Leu Cys				
130	135	140		
Ile His Leu Thr Ala Gly Ser Trp Val Cys Gly Leu Phe Ser Ser Leu				
145	150	155	160	
Leu His Thr Phe Phe Thr Met Ser Leu Pro Tyr Cys Gly Pro Asn Arg				
	165	170	175	
Val Asn His Tyr Phe Cys Glu Gly Pro Ser Val Arg Ser Leu Ala Cys				
	180	185	190	
Met Asp Thr His Val Ile Glu Met Val Asp Phe Val Leu Ser Val Phe				
	195	200	205	

Val	Ile	Val	Ile	Pro	Ile	Ser	Leu	Ile	Val	Ala	Ser	Tyr	Ile	Gly	Ile
210						215					220				
Ala	Lys	Ala	Ile	Leu	Lys	Ile	Lys	Ser	Thr	Glu	Gly	Arg	Cys	Lys	Ala
225				230						235					240
Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Thr	Phe	Phe	Tyr	Ala
			245						250					255	
Pro	Ala	Thr	Tyr	Ile	Tyr	Met	Arg	Pro	Asn	Ser	Ser	Tyr	Ser	Pro	Glu
		260						265					270		
Arg	Asp	Lys	Gln	Ile	Ser	Leu	Phe	Tyr	Asn	Thr	Phe	Thr	Ala	Leu	Leu
	275						280					285			
Asn	Pro	Val	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Arg	Ala	Phe
	290					295					300				
Phe	Lys	Val	Met	Gly	His	Gly	Arg	Met	Asp	Tyr					
305					310					315					

<210> 2456  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2456

Glu	Thr	Arg	Asn	Gln	Thr	Ile	Ile	Ser	Asp	Phe	Leu	Leu	Thr	Gly	Phe
1				5					10					15	
Ser	Asp	His	Pro	Glu	Gln	Gln	Pro	Leu	Leu	Phe	Thr	Leu	Phe	Leu	Gly
			20					25					30		
Met	Tyr	Leu	Val	Thr	Leu	Leu	Gly	Asn	Leu	Phe	Ile	Ile	Leu	Ala	Ile
	35						40					45			
Val	Ser	Asp	Gln	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Asn
	50					55					60				
Leu	Ser	Phe	Ile	Asp	Asn	Cys	Leu	Thr	Cys	Thr	Ile	Val	Pro	Lys	Val
65					70				75					80	
Leu	Thr	Asn	Ile	Gln	Thr	Gln	His	Gln	Thr	Ile	Ser	His	Thr	Gly	Cys
			85					90						95	
Leu	Leu	Gln	Met	Tyr	Phe	Phe	Met	Thr	Met	Ala	Met	Leu	Asp	Asp	Phe
		100						105					110		
Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Leu	Pro
	115						120					125			
Leu	His	Tyr	Thr	Thr	Ile	Met	Cys	Pro	Gln	Arg	Cys	Leu	Leu	Leu	Val
	130					135					140				
Ala	Thr	Ser	Trp	Leu	Cys	Ser	Asn	Leu	Leu	Ala	Leu	Ser	Leu	Ile	Leu
145					150					155					160
Gln	Met	Ala	Gln	Val	Ser	Phe	Cys	Ala	Ser	His	Ser	Ile	Pro	His	Phe
			165						170					175	
Phe	Cys	Asp	Leu	Leu	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	His
		180						185					190		
Thr	Phe	Gln	Leu	Ile	Met	Phe	Ala	Glu	Ala	Ala	Leu	Ser	Gly	Val	Val
	195						200						205		
Pro	Leu	Thr	Cys	Val	Leu	Val	Ser	Tyr	Ala	His	Ile	Met	Asn	Thr	Ile
	210					215						220			
Leu	Lys	Ile	Pro	Ser	Ser	Gly	Gly	Lys	His	Lys	Val	Phe	Ser	Thr	Cys
225				230						235					240
Gly	Ser	His	Leu	Thr	Val	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Val	Phe	Leu
			245						250					255	
Val	Tyr	Phe	Gln	Pro	Ser	Ser	Ser	Tyr	Ser	Glu	Asn	Thr	Gly	Ile	Val
		260						265					270		
Ala	Ser	Val	Val	Tyr	Thr	Met	Val	Thr	Pro	Met	Ile	Asn	Pro	Phe	Ile

	275		280		285										
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Ala	Leu	Trp	Lys	Leu	Phe
	290					295					300				
Gly	Leu	Gly	Lys	His	Cys	Asn	Leu								
305					310										

<210> 2457  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2457

Met	Asn	Asn	Ser	Thr	Leu	Val	Thr	Glu	Phe	Leu	Leu	Glu	Val	Phe	Ala
1				5					10					15	
Glu	Ser	Cys	Glu	Leu	Arg	Ile	Leu	Leu	Ser	Val	Leu	Phe	Leu	Leu	Val
		20						25					30		
Tyr	Leu	Gly	Ser	Leu	Phe	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Val	Thr	Thr
	35						40						45		
Val	Asp	Gln	Thr	Leu	Asn	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Leu
	50					55					60				
Ser	Ile	Val	Asp	Met	Cys	Tyr	Val	Ser	Val	Thr	Val	Pro	Asn	Ala	Cys
65					70					75					80
Phe	Asn	Ser	Leu	Thr	Gly	Gln	Arg	Asn	Ile	Ser	Val	Thr	Gly	Cys	Ala
			85						90					95	
Ala	Gln	Ile	Phe	Phe	Val	Phe	Phe	Cys	Ala	Cys	Val	Glu	Met	Phe	Phe
		100						105					110		
Leu	Thr	Ile	Met	Ala	Gln	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu
	115					120						125			
Leu	Tyr	Pro	Val	Ile	Met	Asn	His	Gln	Phe	Cys	Val	Gln	Met	Thr	Leu
	130					135						140			
Ala	Ser	Leu	His	Ser	Ser	Leu	Ile	Ile	Ala	Ser	Val	His	Thr	Phe	Lys
145					150					155					160
Thr	Phe	Gln	Leu	Ser	Phe	Cys	His	Ser	Asn	Val	Val	Pro	Gln	Phe	Phe
			165						170					175	
Cys	Asp	Ile	Pro	Ser	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr	Phe	Asn
		180						185					190		
Asn	Lys	Leu	Leu	Met	Leu	Ile	Ser	Ala	Ile	Ile	Ile	Gly	Cys	Ser	Cys
	195					200						205			
Phe	Thr	Phe	Ile	Ala	Val	Ser	Tyr	Phe	Arg	Ile	Leu	Ser	Thr	Val	Leu
	210					215					220				
Lys	Val	Pro	Val	Lys	Gly	Glu	Arg	Gly	Lys	Ala	Phe	Ser	Thr	Cys	Val
225				230						235					240
Pro	His	Ile	Val	Val	Val	Ser	Val	Phe	Leu	Ser	Ser	Ser	Thr	Tyr	Val
			245					250						255	
Tyr	Leu	Arg	Pro	Pro	Val	Pro	Thr	Leu	Glu	Val	Val	Lys	Glu	Met	Ala
		260					265						270		
Leu	Ser	Val	Ser	Tyr	Thr	Ile	Val	Pro	Pro	Phe	Leu	Asn	Pro	Ile	Ile
	275					280						285			
Tyr	Ser	Leu	Arg	Asn	Arg	Gln	Ile	Lys	Glu	Ala	Val	Lys	Lys	Val	Ile
	290					295					300				
Leu	Arg	Ile	Ser	Leu	Val										
305					310										

<210> 2458  
 <211> 313

<212> PRT

<213> Mus musculus

<400> 2458

```
Phe Phe Arg Asn Thr Glu Tyr Lys Asn Gln Thr Phe Ala Ser Glu Phe
 1           5           10           15
Ile Leu Leu Gly Leu Thr Asp Asp Pro Glu Leu Gln Leu Ile Leu Phe
      20           25           30
Gly Ile Phe Leu Phe Met Tyr Leu Val Thr Val Leu Gly Asn Leu Ile
      35           40           45
Ile Ile Cys Ala Val Ser Leu His Pro Lys Leu His Thr Pro Met Tyr
      50           55           60
Phe Phe Leu Ser Asn Leu Ser Phe Thr Asp Ile Cys Phe Ile Thr Ser
65           70           75           80
Thr Val Pro Lys Met Leu Val Asn Ile Gln Lys Gln Asn Asn Ala Ile
      85           90           95
Ser Tyr Pro Asp Cys Leu Thr Gln Met Tyr Phe Val Ile Phe Leu Gly
      100          105          110
Gly Met Glu Asn Phe Leu Leu Ala Met Ala Tyr Asp Arg Tyr Val
      115          120          125
Ala Ile Cys His Pro Leu Arg Tyr Thr Val Ile Met Asn Pro Ser Ile
      130          135          140
Cys Ile Leu Leu Thr Leu Leu Ser Val Leu Ser Ser Thr Ile Asp Ala
145          150          155          160
Leu Leu His Ser Leu Leu Val Leu Arg Leu Ser Phe Cys Thr Tyr Leu
      165          170          175
Lys Ile Pro His Phe Phe Cys Glu Leu Ala His Ile Ile Lys Leu Ser
      180          185          190
Cys Ser Asp Thr Leu Ile Asn Asn Ile Val Val Tyr Leu Ala Thr Phe
      195          200          205
Ile Phe Gly Gly Leu Pro Phe Trp Gly Ile Ile Leu Ser Tyr Val Gln
      210          215          220
Ile Val Tyr Ser Val Leu Lys Lys Pro Ser Val Arg Gly Ser Tyr Lys
225          230          235          240
Ala Leu Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr
      245          250          255
Gly Ser Val Ile Gly Val Tyr Ile Ser Phe Ala Val Thr Asp Ser Ser
      260          265          270
Arg Lys Ala Val Ala Ser Val Leu Tyr Thr Val Val Pro Gln Met
      275          280          285
Leu Asn Pro Phe Val Tyr Ser Leu Arg Asn Lys Asp Met Lys Glu Ala
      290          295          300
Val Arg Lys Leu Cys Gly Gly Ile Leu
305          310
```

<210> 2459

<211> 309

<212> PRT

<213> Mus musculus

<400> 2459

```
Met Ala Asp Ile His Asn Val Thr Glu Phe Phe Phe Leu Gly Leu Ser
 1           5           10           15
Ser Asn Gln Glu Val Gln Arg Val Cys Phe Val Ile Phe Leu Phe Leu
      20           25           30
Tyr Met Ala Ile Val Leu Gly Asn Leu Leu Met Val Val Ile Val Ala
```





Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Leu	Asn	Trp	Gly	Leu	Cys	Ile
		115					120					125			
Arg	Leu	Ala	Ala	Gly	Thr	Trp	Ile	Tyr	Gly	Ser	Phe	Ser	Ser	Leu	Leu
	130					135					140				
His	Thr	Phe	Phe	Thr	Met	Ser	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Arg	Val
					150					155					160
Asp	His	Tyr	Phe	Cys	Glu	Gly	Pro	Ser	Val	Arg	Ser	Leu	Ala	Cys	Met
				165					170					175	
Asp	Thr	His	Leu	Ile	Glu	Met	Val	Asp	Leu	Val	Leu	Ser	Val	Phe	Val
			180					185					190		
Val	Val	Thr	Pro	Ile	Ser	Leu	Ile	Val	Ala	Ser	Tyr	Ile	His	Ile	Thr
		195					200					205			
Lys	Ala	Ile	Leu	Lys	Ile	Lys	Ser	Thr	Gln	Ala	Arg	Cys	Lys	Ser	Phe
	210					215					220				
Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Thr	Phe	Phe	Tyr	Ile	Pro
	225				230					235					240
Ala	Ile	Tyr	Ile	Tyr	Ile	Arg	Pro	Asn	Ser	Ser	Tyr	Ser	Pro	Glu	Arg
				245					250					255	
Asp	Lys	Gln	Ile	Ser	Leu	Phe	Tyr	Asn	Val	Phe	Thr	Ala	Leu	Leu	Asn
			260					265					270		
Pro	Val	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Arg	Ala	Phe	Leu
		275					280					285			
Lys	Val	Met	Gly	Leu	Gly	Arg	Met	Asp	Trp						
	290					295									

<210> 2461  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2461

Val	Arg	Arg	Glu	Asn	Gln	Ser	Thr	Val	Phe	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Pro	Ile	Arg	Pro	Glu	His	Gln	Asn	Val	Phe	Phe	Thr	Met	Phe	Leu
			20					25					30		
Ala	Met	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Leu
		35					40					45			
Ile	Arg	Leu	Asp	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
His	Leu	Ala	Phe	Ser	Asp	Ile	Ser	Leu	Ser	Ser	Ile	Thr	Val	Pro	Lys
	65				70					75					80
Met	Leu	Met	Asn	Ile	Gln	Ala	Gln	His	His	Ser	Ile	Ser	Tyr	Lys	Gly
			85						90					95	
Cys	Ile	Ser	Gln	Met	Tyr	Phe	Phe	Ile	Leu	Phe	Val	Cys	Leu	Asp	Asn
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Ile	Thr	Val	Met	Arg	Glu	Glu	Leu	Cys	Val	Cys	Leu
	130					135					140				
Val	Ala	Gly	Ser	Trp	Phe	Phe	Ser	Cys	Val	His	Ala	Leu	Leu	His	Thr
	145				150					155					160
Leu	Leu	Leu	Ile	Gln	Leu	Ser	Phe	Cys	Ala	Ser	Asn	Thr	Val	Pro	Asn
			165					170						175	
Phe	Phe	Cys	Asp	Leu	Thr	Ala	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Ile
		180						185					190		
Ser	Leu	Asn	Lys	Leu	Val	Ile	Phe	Thr	Glu	Gly	Gly	Leu	Leu	Phe	Ile



Ser	Gln	Asp	Val	His	Asn	Leu	Leu	Ser	Ala	Phe	Tyr	Leu	Leu	Leu	Pro
		275					280					285			
Cys	Leu	Val	Asn	Pro	Ile	Ile	Tyr	Gly	Ala	Arg	Thr	Lys	Glu	Ile	Arg
	290					295					300				
Gln	His	Leu	Val	Ala	Leu	Phe	Gln	Arg	Thr	Gln	Gln	Gln			
305					310					315					

<210> 2463  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2463

Val	Leu	Leu	Asn	Gln	Thr	Leu	Val	Thr	Glu	Phe	Leu	Leu	Leu	Gly	Val
1				5					10					15	
Thr	Asp	Ile	Gln	Glu	Leu	Asn	Pro	Ile	Leu	Phe	Val	Thr	Val	Leu	Ala
			20					25					30		
Met	Tyr	Phe	Val	Asn	Val	Ala	Gly	Asn	Gly	Ala	Ile	Leu	Leu	Ile	Val
		35					40					45			
Ile	Ser	Asp	Pro	Arg	Leu	His	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn
	50					55					60				
Leu	Ala	Cys	Leu	Asp	Ile	Cys	Phe	Ser	Thr	Val	Thr	Val	Pro	Lys	Ile
65					70					75					80
Leu	Asp	Asn	Phe	Phe	Ser	Thr	Ser	Lys	Ala	Ile	Ser	Phe	Leu	Gly	Cys
				85					90					95	
Ile	Thr	Gln	Leu	Tyr	Phe	Phe	His	Leu	Leu	Gly	Ser	Thr	Glu	Ala	Leu
			100					105					110		
Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Arg	Pro
		115					120					125			
Leu	His	Tyr	Pro	Ser	Ile	Met	Asn	Arg	Gln	Val	Cys	Ile	Gln	Val	Ala
	130					135					140				
Ile	Ser	Ile	Trp	Ala	Ile	Pro	Phe	Val	His	Ala	Leu	Val	His	Ser	Ile
145					150					155					160
Leu	Thr	Ser	Gln	Leu	Asn	Phe	Cys	Gly	Ser	Asn	Gln	Ile	His	His	Phe
			165						170					175	
Phe	Cys	Asp	Val	Lys	Pro	Leu	Leu	Glu	Leu	Ala	Cys	Gly	Asn	Thr	Glu
			180					185					190		
Leu	Asn	Arg	Trp	Leu	Leu	Asn	Thr	Phe	Thr	Gly	Thr	Phe	Ala	Ile	Gly
	195					200						205			
Leu	Phe	Phe	Leu	Thr	Phe	Leu	Ser	Tyr	Phe	Tyr	Ile	Ile	Thr	Tyr	Leu
	210					215					220				
Phe	Leu	Lys	Thr	Arg	Ser	Cys	Ser	Met	Leu	His	Lys	Ala	Leu	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Phe	Met	Val	Val	Met	Ile	Phe	Tyr	Ala	Pro	Val	Leu
			245						250					255	
Phe	Ile	Tyr	Ile	Asn	Pro	Asp	Ser	Gly	Ser	Ser	Leu	Glu	Lys	Asp	Arg
			260					265					270		
Ile	Ile	Ala	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Ala	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Arg	Gly	Ala	Leu	Asn	Arg	Lys
	290					295					300				
Leu	Arg	Ile	Leu	Leu											
305															

<210> 2464

<211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2464

```

Met Ile Leu Val Asn Lys Ser His Pro Glu Glu Phe Ile Leu Leu Gly
 1           5           10           15
Phe Ala Asp Arg Pro Trp Leu Glu Leu Pro Leu Phe Ile Ile Leu Leu
          20           25           30
Val Thr Tyr Pro Thr Ala Met Ile Gly Asn Ile Ala Ile Ile Leu Met
          35           40           45
Ser Ile Leu Asp Pro Cys Leu His Ser Pro Met Tyr Phe Phe Leu Thr
          50           55           60
Asn Leu Ser Phe Leu Asp Met Cys Tyr Thr Thr Ser Ile Val Pro Gln
65           70           75           80
Met Leu Ile Asn Leu Trp Gly Ser Thr Lys Thr Ile Ser Tyr Leu Arg
          85           90           95
Cys Val Val Gln Leu Tyr Phe Phe His Thr Met Gly Gly Thr Glu Cys
          100          105          110
Val Leu Leu Ala Leu Met Ser Phe Asp Arg Tyr Val Ala Ile Cys Lys
          115          120          125
Pro Leu His Tyr Thr Leu Ile Met Asn Arg Arg Asn Cys Leu Leu Leu
          130          135          140
Val Ser Thr Val Trp Leu Thr Gly Ile Ser Tyr Ala Val Ser Glu Ala
145          150          155          160
Thr Val Thr Leu Gln Leu Pro Leu Cys Gly His Asn Lys Met Asp His
          165          170          175
Leu Val Cys Glu Ile Pro Ile Leu Ile Lys Thr Ala Cys Gly Glu Lys
          180          185          190
Glu Thr Asn Glu Leu Ala Leu Ser Val Ile Cys Ile Phe Leu Leu Ala
          195          200          205
Val Pro Leu Cys Leu Ile Leu Ala Ser Tyr Ala Ser Ile Gly His Ala
          210          215          220
Val Phe Lys Ile Lys Ser Ile Glu Gly Arg Lys Lys Ala Phe Gly Thr
225          230          235          240
Cys Ser Ser His Leu Ile Val Val Leu Leu Phe Tyr Gly Pro Gly Ile
          245          250          255
Ser Met Tyr Leu Gln Pro Pro Ser Ser Ile Thr Lys Asp Gln Pro Lys
          260          265          270
Phe Met Ala Leu Phe Tyr Gly Val Val Thr Pro Thr Leu Asn Pro Phe
          275          280          285
Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Gly Asn Leu
          290          295          300
Phe Arg Asn Ile Phe Ile Pro Lys
305           310

```

<210> 2465  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2465

```

Met Glu Asp Met Pro Ala Gly Asn His Cys Thr Val Thr Val Phe Phe
 1           5           10           15
Leu Ala Gly Leu Ser Glu Gln Ser Glu Leu Gln Leu Pro Leu Phe Leu
          20           25           30

```

Phe Phe Thr Gly Ile Tyr Leu Ile Thr Val Ser Gly Asn Leu Gly Met  
35 40 45  
Ile Ile Leu Ile Gly Leu Ser Ser Asn Leu His Thr Pro Met Tyr Tyr  
50 55 60  
Phe Leu Ser Ser Leu Ser Phe Ile Asp Phe Gly Gln Ser Thr Val Val  
65 70 75 80  
Thr Pro Lys Met Leu Val Ser Phe Leu Thr Glu Lys Asn Leu Ile Thr  
85 90 95  
Tyr Pro Glu Cys Leu Ala Gln Leu Tyr Phe Ala Ile Ile Phe Gly Thr  
100 105 110  
Ala Glu Ser Tyr Thr Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala  
115 120 125  
Ile Cys Asn Pro Leu Val Tyr Asn Ile Ala Met Ser Ser Gln Ile Tyr  
130 135 140  
Cys Ser Leu Ile Ser Gly Val Tyr Ile Phe Ala Val Phe Cys Ala Ser  
145 150 155 160  
Val Asn Met Gly Phe Met Phe Arg Ile Gln Phe Cys Lys Ser Asp Val  
165 170 175  
Ile Asn His Tyr Phe Cys Asp Phe Leu Pro Leu Leu Lys Leu Ala Cys  
180 185 190  
Ser Asn Thr Tyr Val Ser Glu Met Leu Ile Leu Phe Phe Gly Thr Leu  
195 200 205  
Asn Ile Phe Val Pro Met Leu Thr Ile Ile Thr Ser Tyr Ile Ser Ile  
210 215 220  
Ile Ser Ser Ile Leu Arg Ile Ser Ser Ser Glu Gly Arg Ser Lys Ala  
225 230 235 240  
Phe Ser Thr Cys Ser Ser His Ile Ser Ala Val Ala Val Phe Tyr Gly  
245 250 255  
Ser Thr Ala Phe Val Tyr Leu Gln Pro Ser Arg Val Ser Ser Ile Asp  
260 265 270  
Gln Gly Lys Val Ser Ser Val Phe Tyr Thr Thr Val Val Pro Met Leu  
275 280 285  
Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Ser Val Ala Met  
290 295 300  
Lys Lys Ile Leu Glu Arg Lys Arg Phe Met  
305 310

<210> 2466  
<211> 312  
<212> PRT  
<213> Mus musculus

<400> 2466  
Met Glu Asp Met Ala Ala Gly Asn Gln Cys Thr Val Ala Glu Phe Phe  
1 5 10 15  
Leu Ala Gly Leu Ser Glu Lys Pro Glu Leu Gln Leu Pro Leu Phe Leu  
20 25 30  
Leu Phe Thr Gly Ile Tyr Thr Val Ala Gly Asn Leu Gly Met Ile Thr  
35 40 45  
Leu Ile Gly Leu Ser Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu  
50 55 60  
Ser Ser Leu Ser Phe Ile Asp Phe Cys Gln Ser Thr Val Ile Thr Pro  
65 70 75 80  
Lys Met Leu Val Ser Phe Leu Thr Glu Lys Asn Ile Ile Phe Tyr Ser  
85 90 95  
Gly Cys Met Ala Gln Leu Tyr Phe Phe Ile Ile Phe Gly Val Ala Glu



Phe	Phe	Cys	Asp	Ile	Pro	Ala	Ile	Leu	Pro	Leu	Ala	Ser	Ala	Asp	Thr
			180					185					190		
Ser	Leu	Ala	Gln	Arg	Val	Ser	Phe	Thr	Asn	Val	Gly	Leu	Val	Ser	Leu
		195					200					205			
Val	Cys	Phe	Leu	Leu	Ile	Leu	Leu	Ser	Tyr	Thr	Arg	Ile	Thr	Ile	Ser
	210					215					220				
Ile	Leu	Ser	Ile	Gln	Ser	Thr	Glu	Gly	Arg	Gln	Arg	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ala	His	Leu	Ile	Ala	Ile	Leu	Cys	Ala	Tyr	Gly	Pro	Ile	Ile
			245						250					255	
Thr	Ile	Tyr	Leu	Gln	Pro	Thr	Pro	Asn	Pro	Met	Leu	Gly	Thr	Val	Val
			260					265					270		
Gln	Ile	Leu	Met	Asn	Leu	Val	Gly	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ile	Ala	Leu	Lys	Lys	Ile	Leu	His
	290					295					300				
Gly	Lys	Gly	Ser	Val	Ser	Glu	Gly								
305					310										

<210> 2468

<211> 314

<212> PRT

<213> Mus musculus

<400> 2468

Met	Arg	Thr	Leu	Tyr	Ser	Asn	Thr	Ser	Ser	Thr	Leu	Ser	Phe	Met	Leu
1				5				10					15		
Thr	Gly	Phe	Pro	Glu	Met	Gln	Ser	Leu	Glu	His	Trp	Leu	Ala	Ala	Leu
			20					25				30			
Leu	Leu	Leu	Leu	Tyr	Val	Ile	Ser	Ile	Val	Gly	Asn	Ala	Leu	Ile	Leu
	35					40					45				
Phe	Ile	Ile	Lys	Glu	Glu	Gln	Ser	Leu	His	His	Pro	Met	Tyr	Tyr	Phe
	50					55				60					
Leu	Ser	Leu	Leu	Ser	Val	Asn	Asp	Leu	Gly	Val	Ser	Phe	Ser	Thr	Leu
65					70					75					80
Pro	Thr	Val	Leu	Ala	Ser	Met	Cys	Phe	His	Ile	Pro	Glu	Thr	Ala	Phe
			85					90						95	
Asp	Ala	Cys	Leu	Ala	Gln	Met	Phe	Phe	Ile	His	Phe	Phe	Ser	Trp	Thr
			100					105					110		
Glu	Ser	Gly	Ile	Leu	Leu	Ala	Met	Ser	Phe	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Asn	Pro	Leu	His	Tyr	Ser	Ser	Val	Leu	Thr	Asp	Ala	Arg	Val	Ala
	130					135					140				
His	Met	Gly	Met	Ser	Ile	Ile	Ile	Arg	Ser	Phe	Cys	Met	Val	Phe	Pro
145					150					155					160
Leu	Pro	Phe	Leu	Leu	Lys	Arg	Leu	Pro	Phe	Cys	Lys	Ala	Asn	Val	Leu
			165					170						175	
Thr	His	Ser	Tyr	Cys	Leu	His	Pro	Asp	Leu	Ile	Arg	Leu	Pro	Cys	Gly
			180					185					190		
Asp	Thr	Thr	Ile	Asn	Ser	Met	Tyr	Gly	Leu	Phe	Ile	Val	Ile	Ser	Ala
		195					200					205			
Phe	Gly	Val	Asp	Ser	Val	Leu	Ile	Leu	Leu	Ser	Tyr	Val	Leu	Ile	Leu
	210					215					220				
Arg	Ser	Val	Leu	Ala	Ile	Ala	Ser	Arg	Glu	Glu	Arg	Leu	Lys	Thr	Leu
225					230					235					240
Asn	Thr	Cys	Val	Ser	His	Ile	Ser	Ala	Val	Leu	Ile	Phe	Tyr	Val	Pro



				245					250				255				
Met	Ile	Ser	Val	Ser	Met	Val	His	Arg	Phe	Val	Lys	His	Ala	Pro	Glu		
			260					265					270				
Tyr	Val	His	Lys	Phe	Thr	Ser	Leu	Val	Tyr	Leu	Phe	Val	Pro	Pro	Met		
		275					280					285					
Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Ile	Lys	Thr	Lys	Glu	Ile	Arg	Arg	Arg		
	290					295					300						
Leu	His	Lys	Met	Leu	Leu	Gly	Thr	Lys	Phe								
305					310												

<210> 2469  
 <211> 322  
 <212> PRT  
 <213> Mus musculus

<400> 2469

Leu	Ile	Ile	Ser	Leu	Leu	Asn	Ala	Ser	Ser	Leu	Thr	Pro	Ala	Ser	Phe		
1				5					10					15			
Ile	Leu	Asn	Gly	Ile	Pro	Gly	Leu	Glu	Val	His	Leu	Trp	Ile	Ser			
		20						25				30					
Phe	Pro	Leu	Phe	Thr	Met	Tyr	Ser	Ile	Ala	Leu	Thr	Gly	Lys	Phe	Gly		
		35					40					45					
Leu	Ile	Tyr	Leu	Ile	Tyr	Ser	Glu	Glu	Val	Leu	His	Arg	Pro	Met	Tyr		
	50					55					60						
Ile	Phe	Leu	Ala	Leu	Leu	Ser	Phe	Thr	Asp	Val	Leu	Met	Cys	Thr	Ser		
65					70					75					80		
Thr	Leu	Pro	Asn	Thr	Leu	Cys	Ile	Leu	Trp	Phe	Asn	Val	Lys	Lys	Ile		
			85						90					95			
Asp	Phe	Lys	Ala	Cys	Leu	Ala	Gln	Met	Phe	Phe	Val	His	Thr	Phe	Thr		
			100					105					110				
Gly	Met	Glu	Ser	Gly	Val	Leu	Met	Leu	Met	Ala	Leu	Asp	Arg	Tyr	Val		
		115					120					125					
Ala	Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Ala	Thr	Ile	Leu	Thr	Asn	Val	Val		
	130					135						140					
Ile	Ala	Lys	Ala	Gly	Met	Leu	Thr	Phe	Leu	Arg	Gly	Val	Ile	Leu	Val		
145					150					155					160		
Ile	Pro	Phe	Ile	Phe	Leu	Thr	Lys	Arg	Leu	Pro	Tyr	Cys	Lys	Gly	Asn		
			165						170					175			
Val	Ile	Pro	His	Thr	Tyr	Cys	Asp	His	Met	Ser	Val	Ala	Lys	Ile	Ser		
			180					185					190				
Cys	Gly	Asn	Val	Gln	Ile	Asn	Ala	Ile	Tyr	Gly	Leu	Met	Val	Ala	Leu		
		195				200						205					
Leu	Ile	Gly	Gly	Phe	Asp	Ile	Leu	Cys	Ile	Thr	Val	Ser	Tyr	Thr	Met		
	210					215					220						
Ile	Leu	Arg	Ala	Val	Val	Ser	Leu	Ser	Ser	Ala	Asp	Ala	Arg	Gln	Lys		
225					230					235					240		
Ala	Phe	Ser	Thr	Cys	Thr	Ala	His	Ile	Cys	Ala	Ile	Val	Ile	Thr	Tyr		
			245						250					255			
Val	Pro	Ala	Phe	Phe	Thr	Phe	Phe	Thr	His	Arg	Phe	Gly	Arg	His	Thr		
		260						265					270				
Ile	Pro	Pro	His	Ile	His	Ile	Ile	Met	Ala	Asn	Leu	Tyr	Leu	Leu	Met		
		275					280						285				
Pro	Pro	Thr	Met	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Gln	Ile		
	290					295					300						
Glu	Ser	Val	Ile	Arg	Phe	Leu	Phe	Lys	Gly	Arg	Glu	Asn	Ser	Ser	His		
305					310					315					320		

Lys Ile

<210> 2470  
<211> 317  
<212> PRT  
<213> Mus musculus

<400> 2470  
Met Glu Gly Lys Asn Gln Thr Ala Pro Ser Glu Phe Ile Ile Leu Gly  
1 5 10 15  
Phe Asp His Leu Asn Glu Leu Gln Tyr Leu Leu Phe Thr Ile Phe Phe  
20 25 30  
Leu Thr Tyr Ile Cys Thr Leu Gly Gly Asn Val Phe Ile Ile Val Val  
35 40 45  
Thr Ile Ala Asp Ser His Leu His Thr Pro Met Tyr Tyr Phe Leu Gly  
50 55 60  
Asn Leu Ala Leu Ile Asp Ile Cys Tyr Thr Thr Asn Val Pro Gln  
65 70 75 80  
Met Met Val His Leu Leu Ser Glu Lys Lys Ile Ile Ser Tyr Gly Gly  
85 90 95  
Cys Val Thr Gln Leu Phe Ala Phe Ile Phe Phe Val Gly Ser Glu Cys  
100 105 110  
Leu Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Ile Ala Ile Cys Lys  
115 120 125  
Pro Leu Arg Tyr Ser Phe Ile Met Asn Lys Ala Leu Cys Ser Trp Leu  
130 135 140  
Ala Ala Ser Cys Trp Thr Gly Gly Phe Leu Asn Ser Val Leu His Thr  
145 150 155 160  
Val Leu Thr Phe His Leu Pro Phe Cys Gly Asn Asn Gln Ile Asn Tyr  
165 170 175  
Phe Phe Cys Asp Ile Pro Pro Leu Leu Ile Leu Ser Cys Gly Asp Thr  
180 185 190  
Ser Leu Asn Glu Leu Ala Leu Leu Ser Ile Gly Ile Leu Ile Gly Trp  
195 200 205  
Thr Pro Phe Leu Cys Ile Ile Leu Ser Tyr Leu Tyr Ile Ile Ser Thr  
210 215 220  
Ile Leu Arg Ile Arg Ser Ser Glu Gly Arg His Lys Ala Phe Ser Thr  
225 230 235 240  
Cys Ala Ser His Leu Leu Ile Val Ile Leu Tyr Tyr Gly Ser Ala Ile  
245 250 255  
Phe Thr Tyr Val Arg Pro Ile Ser Ser Tyr Ser Leu Glu Lys Asp Arg  
260 265 270  
Leu Ile Ser Val Leu Tyr Ser Val Val Thr Pro Met Leu Asn Pro Val  
275 280 285  
Ile Tyr Thr Leu Arg Asn Lys Asp Ile Lys Glu Ala Met Lys Ala Ile  
290 295 300  
Gly Arg Lys Trp Lys Pro Pro Val Phe Ser Ser Asp Ile  
305 310 315

<210> 2471  
<211> 330  
<212> PRT  
<213> Mus musculus

<400> 2471

Met	Thr	Tyr	Cys	Ser	Val	Phe	Gln	Glu	Met	Ser	Val	Asn	Cys	Ser	Leu
1				5					10					15	
Trp	Gln	Glu	Asn	Ser	Leu	Ser	Val	Lys	Arg	Phe	Ala	Phe	Ala	Lys	Phe
			20					25					30		
Ser	Glu	Val	Pro	Gly	Glu	Cys	Phe	Leu	Leu	Phe	Thr	Leu	Ile	Leu	Leu
		35					40					45			
Met	Phe	Leu	Val	Ser	Leu	Thr	Gly	Asn	Ala	Leu	Ile	Thr	Leu	Ala	Ile
	50					55					60				
Cys	Thr	Ser	Pro	Ala	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Asn
65					70					75					80
Leu	Ser	Leu	Leu	Glu	Ile	Gly	Tyr	Thr	Cys	Thr	Val	Ile	Pro	Lys	Met
				85					90					95	
Leu	Gln	Ser	Leu	Val	Ser	Glu	Ala	Arg	Gly	Ile	Ser	Arg	Glu	Gly	Cys
			100					105					110		
Ala	Thr	Gln	Met	Phe	Phe	Phe	Thr	Leu	Phe	Gly	Ile	Thr	Glu	Cys	Cys
		115					120					125			
Leu	Leu	Ala	Ala	Met	Ala	Phe	Asp	Arg	Cys	Met	Ala	Ile	Cys	Ser	Pro
	130					135					140				
Leu	His	Tyr	Thr	Thr	Arg	Met	Asn	Arg	Gly	Val	Cys	Ala	His	Leu	Ala
145					150					155					160
Ile	Val	Ser	Trp	Gly	Thr	Gly	Cys	Ile	Val	Gly	Leu	Gly	Gln	Thr	Asn
				165					170					175	
Phe	Ile	Phe	Ser	Leu	Asn	Phe	Cys	Gly	Pro	Cys	Glu	Ile	Asp	His	Phe
			180					185					190		
Phe	Cys	Asp	Leu	Pro	Pro	Val	Leu	Ala	Leu	Ala	Cys	Gly	Asp	Thr	Ser
		195					200					205			
Gln	Asn	Glu	Ala	Ala	Ile	Phe	Val	Val	Ala	Ile	Leu	Cys	Ile	Ser	Ser
		210				215					220				
Pro	Phe	Leu	Leu	Ile	Ile	Tyr	Ser	Tyr	Val	Arg	Ile	Leu	Val	Ala	Val
225					230					235					240
Leu	Val	Met	Pro	Ser	Pro	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr	Cys
				245					250					255	
Ser	Ser	His	Leu	Leu	Val	Val	Thr	Leu	Phe	Phe	Gly	Ser	Gly	Ser	Ile
			260					265					270		
Asn	Tyr	Leu	Arg	Pro	Lys	Ser	Ser	His	Ser	Pro	Gly	Met	Asp	Lys	Leu
		275					280					285			
Leu	Ala	Leu	Phe	Tyr	Thr	Ala	Val	Thr	Ser	Met	Leu	Asn	Pro	Ile	Ile
		290				295					300				
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ala	Ala	Leu	Arg	Arg	Thr	Leu
305					310					315					320
Gly	Leu	Lys	Lys	Val	Leu	Thr	Met	Asn	Arg						
				325					330						

<210> 2472

<211> 314

<212> PRT

<213> Mus musculus

<400> 2472

Met	Glu	Asp	Met	Thr	Ser	Gly	Asn	Asn	Cys	Thr	Val	Thr	Glu	Phe	Phe
1				5					10					15	
Leu	Ala	Gly	Leu	Ser	Glu	Glu	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Leu
			20					25					30		
Leu	Phe	Thr	Gly	Ile	Tyr	Leu	Ile	Thr	Val	Ala	Gly	Asn	Leu	Gly	Met
		35					40					45			

Ile	Thr	Leu	Ile	Gly	Ile	Ser	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr
50					55					60					
Phe	Leu	Ser	Ser	Leu	Ser	Leu	Ile	Asp	Phe	Cys	Gln	Ser	Thr	Val	Val
65				70					75					80	
Ile	Pro	Lys	Met	Leu	Met	Ser	Phe	Leu	Val	Glu	Lys	Asn	Leu	Ile	Ser
			85					90					95		
Tyr	Pro	Gly	Cys	Met	Ala	Gln	Leu	Tyr	Phe	Phe	Ile	Thr	Phe	Gly	Ile
		100					105						110		
Ala	Glu	Cys	Tyr	Thr	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
	115					120						125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Asn	Ala	Thr	Met	Ser	Ser	Gln	Ile	Tyr
130					135					140					
Thr	Ser	Leu	Ile	Leu	Gly	Val	Tyr	Ile	Phe	Ala	Val	Ile	Cys	Ala	Ser
145				150					155					160	
Val	Asn	Thr	Gly	Phe	Met	Ser	Arg	Ile	Lys	Phe	Cys	Lys	Ser	Asp	Val
			165					170						175	
Ile	Ser	His	Tyr	Phe	Cys	Asp	Phe	Leu	Pro	Leu	Leu	Lys	Leu	Ala	Cys
		180				185							190		
Ser	Asp	Ile	Tyr	Ile	Asn	Glu	Met	Leu	Ile	Leu	Ser	Phe	Gly	Thr	Val
	195				200							205			
Asn	Ile	Cys	Val	Pro	Leu	Leu	Thr	Val	Ile	Thr	Ser	Tyr	Ile	Phe	Ile
210					215					220					
Ile	Ala	Ser	Ile	Leu	Arg	Ile	Arg	Ser	Ser	Glu	Gly	Arg	Ser	Lys	Ala
225				230						235				240	
Phe	Ser	Thr	Cys	Ser	Ser	His	Ile	Ser	Ala	Val	Ala	Val	Phe	Tyr	Gly
			245					250						255	
Ser	Ala	Ala	Phe	Thr	Tyr	Leu	Gln	Pro	Ser	Ser	Val	Ser	Leu	Ile	Asp
		260				265						270			
Gln	Gly	Lys	Val	Ser	Ser	Val	Phe	Tyr	Thr	Thr	Val	Val	Pro	Met	Leu
	275					280						285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Thr	Val	Ala	Leu
290					295					300					
Lys	Thr	Ile	Leu	Glu	Arg	Lys	Lys	Phe	Met						
305					310										

<210> 2473

<211> 317

<212> PRT

<213> Mus musculus

<400> 2473

Met	Ser	Thr	Phe	His	Asn	Val	Cys	Ser	Val	Pro	Ser	Ser	Leu	Trp	Leu
1			5					10					15		
Thr	Gly	Ile	Pro	Gly	Leu	Glu	Thr	Leu	His	Ile	Trp	Leu	Ser	Ile	Pro
		20					25					30			
Phe	Gly	Ser	Met	Tyr	Leu	Val	Ala	Val	Val	Gly	Asn	Ile	Thr	Ile	Leu
	35				40						45				
Ala	Val	Val	Arg	Val	Glu	Arg	Ser	Leu	His	Gln	Pro	Met	Tyr	Phe	Phe
50					55					60					
Leu	Cys	Met	Leu	Ala	Val	Ile	Asp	Leu	Val	Leu	Ser	Thr	Ser	Thr	Met
65			70					75					80		
Pro	Lys	Leu	Leu	Ala	Ile	Phe	Trp	Phe	Gly	Ala	Gly	His	Ile	Gly	Leu
		85						90					95		
Asp	Ala	Cys	Leu	Cys	Gln	Met	Phe	Leu	Ile	His	Cys	Phe	Ala	Thr	Val
	100					105						110			
Glu	Ser	Gly	Ile	Phe	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile



Phe	Thr	Leu	Asn	Ser	Ile	Tyr	Gly	Leu	Ser	Ala	Ala	Leu	Leu	Thr	Thr
	195						200					205			
Gly	Leu	Asp	Phe	Val	Phe	Ile	Ser	Leu	Ser	Tyr	Trp	Leu	Ile	Leu	Lys
	210					215					220				
Thr	Val	Leu	Gln	Leu	Pro	Ser	Lys	Glu	Ala	Arg	Thr	Lys	Ala	Phe	Gly
225					230					235					240
Thr	Cys	Gly	Ala	His	Ile	Cys	Val	Ile	Leu	Ile	Phe	Tyr	Thr	Leu	Ala
				245					250					255	
Phe	Phe	Ser	Phe	Phe	Thr	His	Arg	Phe	Gly	His	His	Val	Ser	Arg	His
			260					265					270		
Thr	Leu	Ile	Leu	Leu	Ala	Asn	Leu	Tyr	Leu	Leu	Ile	Pro	Pro	Thr	Met
		275					280					285			
Asn	Pro	Ile	Val	Tyr	Gly	Ile	Lys	Thr	Lys	Glu	Ile	Arg	Met	Arg	Val
	290					295					300				
Val	Gly	Thr	Cys	Ser											
305															

<210> 2475  
 <211> 328  
 <212> PRT  
 <213> Mus musculus

<400> 2475

Met	Leu	Ile	Leu	Ser	Val	Arg	Phe	Leu	Val	Asp	Lys	Pro	Ser	Glu	Met
1				5					10					15	
Arg	Asn	Arg	Thr	Ser	Val	Thr	Tyr	Phe	Ile	Leu	Leu	Gly	Leu	Thr	Asp
			20					25					30		
Asp	Pro	Glu	Leu	Gln	Val	Val	Ile	Phe	Phe	Phe	Leu	Phe	Leu	Thr	Tyr
		35					40					45			
Leu	Leu	Ser	Ile	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Leu	Leu
		50				55					60				
Asp	Ser	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe	Ser
65					70					75					80
Phe	Leu	Glu	Ile	Ser	Phe	Thr	Ser	Val	Cys	Asn	Pro	Arg	Phe	Leu	Val
			85						90					95	
Ser	Ile	Leu	Thr	Lys	Asp	Lys	Ser	Ile	Ser	Tyr	Asn	Ala	Cys	Ala	Ala
			100					105					110		
Gln	Leu	Phe	Phe	Phe	Ile	Phe	Leu	Gly	Ser	Thr	Glu	Phe	Phe	Leu	Leu
		115					120					125			
Ala	Ser	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His
		130				135					140				
Tyr	Thr	Thr	Ile	Ile	Ser	Asn	Lys	Ile	Cys	His	Gln	Leu	Ile	Ile	Ser
145					150					155					160
Ser	Trp	Leu	Ala	Gly	Phe	Leu	Val	Val	Phe	Pro	Pro	Leu	Ala	Met	Gly
				165					170					175	
Leu	Asp	Leu	Asp	Phe	Cys	Asp	Ser	Asn	Thr	Ile	Asp	His	Phe	Thr	Cys
			180					185					190		
Asp	Ser	Ala	Pro	Leu	Leu	Gln	Ile	Ser	Cys	Thr	Asp	Thr	Ser	Thr	Leu
		195					200					205			
Glu	Leu	Met	Ser	Phe	Ile	Leu	Ala	Leu	Ile	Thr	Leu	Met	Thr	Thr	Leu
		210				215					220				
Met	Leu	Ile	Ile	Leu	Ser	Tyr	Thr	Cys	Ile	Leu	Arg	Thr	Ile	Leu	Lys
225					230					235					240
Phe	Pro	Ser	Ala	Lys	Gln	Arg	Glu	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser
				245					250					255	
His	Met	Ile	Val	Val	Ser	Ile	Ser	Tyr	Gly	Ser	Cys	Ile	Phe	Met	Tyr



<210> 2477  
 <211> 305  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> VARIANT  
 <222> (12)...(18)  
 <223> Any amino acid

<221> VARIANT  
 <222> (20)...(25)  
 <223> Any amino acid

<400> 2477  
 Met Gln Asn Gln Ser Phe Ile Thr Glu Phe Val Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15  
 Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Val Tyr Ile Ala Thr Ile Gly  
 20 25 30  
 Gly Asn Met Met Ile Val Val Thr Val Val Cys Thr Pro Ala Leu Leu  
 35 40 45  
 Gly Ser Pro Met Tyr Phe Phe Leu Ala Phe Leu Ser Leu Leu Asp Ala  
 50 55 60  
 Ser Phe Ser Ser Ala Met Thr Pro Lys Met Ile Val Asp Ser Leu Tyr  
 65 70 75 80  
 Glu Arg Lys Thr Ile Ser Phe Glu Gly Cys Met Ile Gln Leu Phe Ala  
 85 90 95  
 Glu His Phe Phe Gly Gly Ala Glu Val Ile Val Leu Ser Ala Met Ala  
 100 105 110  
 Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu His Tyr Ser Ser Ile  
 115 120 125  
 Met Thr Leu Arg Leu Cys Gly Thr Leu Val Gly Val Ala Trp Thr Gly  
 130 135 140  
 Gly Phe Leu His Ser Ile Ile Gln Ile Ile Phe Thr Leu Gln Leu Pro  
 145 150 155 160  
 Phe Cys Gly Pro Asn Ile Ile Asp His Phe Ile Cys Asp Leu Tyr Pro  
 165 170 175  
 Leu Leu Glu Leu Ala Cys Thr Asp Thr His Ile Phe Gly Leu Leu Val  
 180 185 190  
 Val Ala Asn Ser Gly Phe Ile Cys Ile Ile Ile Phe Thr Leu Leu Leu  
 195 200 205  
 Val Ser Tyr Gly Phe Ile Leu Leu Ser Leu Arg Ser His Ser Ser Glu  
 210 215 220  
 Gly Arg Trp Lys Ala Leu Ser Thr Cys Gly Ser His Ile Ala Val Val  
 225 230 235 240  
 Val Leu Phe Phe Val Pro Cys Ile Phe Thr Tyr Ala Arg Pro Pro Thr  
 245 250 255  
 Ala Phe Ser Phe Asp Lys Met Val Ala Ile Phe Tyr Thr Met Leu Ser  
 260 265 270  
 Pro Leu Leu Asn Pro Met Ile Tyr Thr Phe Arg Asn Lys Asp Met Lys  
 275 280 285  
 Asn Ala Ile Arg Lys Met Trp Thr Arg Leu Ile Val His Ser Asp Lys  
 290 295 300  
 Lys  
 305



<210> 2478  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2478  
 Met Gly Arg Glu Asn Gln Thr Ser Thr Phe Glu Phe Leu Leu Trp Gly  
 1 5 10 15  
 Leu Ser Glu Gln Leu Gln Gln Gln His Ile Leu Phe Leu Ile Phe Leu  
 20 25 30  
 Trp Met Tyr Leu Val Thr Val Val Gly Asn Leu Leu Ile Val Leu Ala  
 35 40 45  
 Ile Ser Thr Asp Val Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ala  
 50 55 60  
 Asn Leu Ser Cys Asp Asp Ile Leu Phe Thr Ser Thr Thr Ile Pro Lys  
 65 70 75 80  
 Ala Leu Val Asn Ile His Thr Gln Ser Arg Thr Ile Ser Tyr Ala Gly  
 85 90 95  
 Cys Leu Val Gln Leu Tyr Phe Phe Leu Thr Phe Gly Asp Met Asp Ile  
 100 105 110  
 Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His  
 115 120 125  
 Pro Leu His Tyr Arg Met Ile Met Ser Phe Gln Arg Cys Ser Leu Leu  
 130 135 140  
 Val Thr Ala Cys Trp Ile Leu Thr Thr Phe Val Ala Met Thr His Thr  
 145 150 155 160  
 Leu Leu Ile Phe Arg Leu Ser Phe Cys Ser Lys Lys Val Ile Pro Asp  
 165 170 175  
 Phe Phe Cys Asp Leu Gly Pro Leu Met Lys Ile Ala Cys Ser Glu Thr  
 180 185 190  
 Arg Ile Asn Glu Leu Val Leu Leu Phe Leu Gly Gly Ala Val Ile Leu  
 195 200 205  
 Ile Pro Phe Leu Leu Ile Leu Val Ser Tyr Ile Arg Ile Val Ser Ala  
 210 215 220  
 Ile Leu Arg Leu Pro Ser Ala Gln Gly Arg Arg Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Ser Val Val Ala Leu Cys Phe Gly Thr Val Ile  
 245 250 255  
 Lys Ala Tyr Leu Cys Pro Ser Ser Ser Ser Ser Asn Ser Val Val Glu  
 260 265 270  
 Asp Thr Ala Ala Val Val Met Tyr Thr Val Val Thr Pro Leu Leu Asn  
 275 280 285  
 Pro Phe Ile Tyr Ser Leu Asn Lys Asp Met Lys Gly Ala Leu Val Arg  
 290 295 300  
 Ile Leu Lys Gly Lys Val Ser Phe  
 305 310

<210> 2479  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2479  
 Met Glu Lys Asn Ala Thr Leu Leu Thr Glu Phe Val Leu Thr Gly Leu

1	5	10	15
Ser His Gln Pro Leu Trp Asn Ile Pro Leu Phe Leu Val Phe Leu Val			
20	25	30	
Ile Tyr Leu Ile Thr Ile Val Gly Asn Val Ser Leu Ile Thr Leu Ile			
35	40	45	
Trp Thr Asp Pro His Leu His Ile Pro Met Tyr Leu Phe Leu Gly Ser			
50	55	60	
Leu Ala Phe Val Asp Thr Ser Ile Ser Ser Ile Val Val Pro Lys Met			
65	70	75	80
Leu Leu Asn Phe Phe Gly Lys Ser Lys Val Ile Thr Leu Ser Glu Cys			
85	90	95	
Met Ala Gln Phe Phe Leu Phe Asn Ile Ser Ala Thr Thr Glu Cys Phe			
100	105	110	
Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro			
115	120	125	
Leu Leu Tyr Pro Val Val Met Thr Asn Gly Leu Cys Val Trp Leu Ile			
130	135	140	
Ala Leu Ser Phe Val Ala Gly Ile Ile His Ala Leu Ile His Glu Gly			
145	150	155	160
Phe Leu Leu Arg Leu Thr Phe Cys Asn Ser Asn Met Ile His Asn Phe			
165	170	175	
Tyr Cys Asp Ile Ile Ser Leu Leu Lys Ile Ser Cys Thr Asp Thr Ser			
180	185	190	
Leu Asn Tyr Leu Ile Val Phe Ile Phe Ser Gly Ser Ile Gln Val Phe			
195	200	205	
Thr Ile Ser Thr Ile Leu Val Ser Tyr Thr Ile Ile Leu Phe Thr Ile			
210	215	220	
Leu Lys Lys Lys Ser Ala Lys Gly Ile Lys Lys Ala Phe Ser Thr Cys			
225	230	235	240
Gly Ala His Leu Leu Ser Val Ser Leu Tyr Tyr Gly Pro Leu Leu Phe			
245	250	255	
Met Tyr Val His Pro Ala Ser Ser Glu Val Asp Asp Gln Asp Met Ile			
260	265	270	
Asp Ser Leu Phe Tyr Thr Val Ile Ile Pro Val Leu Asn Pro Ile Ile			
275	280	285	
Tyr Ser Leu Arg Asn Lys Gln Val Ile Asp Ser Leu Ala Lys Phe Leu			
290	295	300	
Lys Arg Asn Val			
305			

<210> 2480

<211> 309

<212> PRT

<213> Mus musculus

<400> 2480

Met Glu Asp Gly Asn Thr Thr Leu Leu Thr Glu Phe Val Leu Thr Gly	
1	5
Leu Thr Asp His Gln Gly Leu Gln Val Pro Leu Phe Leu Leu Phe Leu	
20	25
Met Ile Tyr Leu Ile Thr Val Val Gly Asn Leu Gly Leu Ile Ala Leu	
35	40
Ile Trp Ser Asp Pro His Leu His Ile Pro Met Tyr Leu Phe Leu Gly	
50	55
Ser Leu Ala Phe Val Asp Ala Trp Ile Ser Ser Ala Val Thr Pro Asn	
65	70
	75
	80

Met	Leu	Phe	Asp	Leu	Leu	Ser	Lys	Asn	Lys	Met	Ile	Ser	Leu	Ser	Glu
				85					90					95	
Cys	Met	Ile	Gln	Phe	Phe	Ala	Phe	Ala	Phe	Gly	Gly	Thr	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Gly	Thr	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
		115					120					125			
Pro	Leu	Leu	Tyr	Pro	Val	Ile	Met	Thr	Asn	Arg	Leu	Cys	Ile	Arg	Leu
	130					135					140				
Leu	Val	Ser	Val	Phe	Ile	Gly	Gly	Phe	Leu	His	Ser	Leu	Phe	His	Val
145					150				155						160
Leu	Phe	Leu	Leu	Arg	Leu	Thr	Phe	Cys	Asn	Ser	Asn	Ile	Ile	His	His
				165					170					175	
Phe	Tyr	Cys	Asp	Ile	Ile	Pro	Leu	Tyr	Asn	Ile	Ser	Cys	Thr	Asp	Pro
			180					185					190		
Thr	Leu	Asn	Leu	Leu	Leu	Val	Phe	Ile	Leu	Ser	Gly	Ser	Ile	Gln	Val
		195					200					205			
Phe	Thr	Ile	Met	Thr	Val	Leu	Val	Ser	Tyr	Thr	Leu	Val	Leu	Phe	Thr
	210					215					220				
Ile	Leu	Lys	Met	Lys	Ser	Leu	Gln	Gly	Ile	Arg	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ala	His	Leu	Leu	Ser	Val	Ser	Leu	Tyr	Tyr	Gly	Pro	Leu	Leu
				245					250					255	
Phe	Met	Tyr	Val	Leu	Pro	Ala	Ser	Gln	Gln	Thr	Asp	Gly	Gln	Gly	Met
			260					265					270		
Met	Asp	Ser	Leu	Phe	Tyr	Thr	Val	Ile	Ile	Pro	Val	Leu	Asn	Pro	Ile
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Gln	Val	Thr	Asp	Ser	Leu	Lys	Lys	Arg
	290					295					300				
Leu	Glu	Arg	His	Val											
305															

<210> 2481  
 <211> 325  
 <212> PRT  
 <213> Mus musculus

<400> 2481

Met	Thr	Gln	Thr	Pro	Thr	Lys	Ser	Phe	Leu	Gln	Met	Lys	His	Asp	Glu
1				5					10					15	
Ile	Glu	Ala	Glu	Val	Asn	Ile	Ser	Thr	Val	Ile	Gln	Phe	Val	Leu	Leu
			20					25					30		
Gly	Phe	Ser	Ala	Leu	Pro	Asn	Leu	Gln	Gly	Ile	Leu	Ser	Ala	Leu	Phe
		35				40						45			
Ser	Ile	Ile	Tyr	Met	Ile	Ile	Leu	Thr	Gly	Asn	Cys	Leu	Ile	Ile	Leu
	50					55				60					
Ile	Thr	Arg	Leu	Asp	His	Thr	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu
65					70					75					80
Ala	Asn	Phe	Ser	Ser	Leu	Glu	Ile	Cys	Tyr	Val	Ser	Val	Thr	Val	Pro
				85					90					95	
Arg	Ile	Leu	Phe	Asn	Ile	Trp	Thr	Gln	Asp	Arg	Asn	Ile	Ser	Val	Leu
			100					105					110		
Ala	Cys	Ala	Val	Gln	Met	Cys	Phe	Phe	Leu	Met	Leu	Gly	Thr	Asp	Glu
		115					120					125			
Cys	Phe	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys
	130					135					140				
Asn	Pro	Leu	His	Tyr	Pro	Leu	Ile	Met	Asn	Ser	Lys	Lys	Cys	Thr	Gln

145		150		155		160
Leu	Ala	Ala	Gly	Ser	Trp	Leu
		165		170		175
Thr	Cys	Trp	Ile	Phe	Ser	Met
		180		185		190
His	Phe	Phe	Cys	Asp	Ile	Pro
		195		200		205
Thr	Ser	Val	His	Glu	Leu	Ser
		210		215		220
Ala	Phe	Pro	Phe	Ile	Leu	Val
225				230		235
Thr	Ile	Leu	Arg	Leu	Pro	Thr
				245		250
Thr	Cys	Ser	Ser	His	Leu	Leu
				260		265
Thr	Ile	Thr	Tyr	Leu	Arg	Pro
				275		280
Lys	Leu	Leu	Ser	Leu	Phe	Tyr
				290		295
Leu	Ile	Tyr	Ser	Leu	Arg	Asn
305						310
Leu	Ile	Leu	Gln	Lys		
						325

<210> 2482

<211> 285

<212> PRT

<213> Mus musculus

<400> 2482

Met	Glu	Pro	Gly	Asn	His	Thr	Met	Val	Thr	Glu	Phe	Ile	Ile	Leu	Gly
1				5					10					15	
Leu	Thr	Glu	Asn	Pro	Thr	Leu	Cys	Cys	Ile	Phe	Phe	Val	Leu	Phe	Leu
			20					25					30		
Gly	Val	Tyr	Leu	Thr	Thr	Ile	Leu	Gly	Asn	Val	Ser	Ile	Ile	Met	Leu
		35				40						45			
Ile	Arg	Arg	Ser	Pro	Gln	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser
		50			55					60					
His	Leu	Ala	Phe	Val	Asp	Ile	Gly	Tyr	Ser	Ser	Ser	Val	Thr	Pro	Val
65					70				75					80	
Met	Ile	Val	Ser	Phe	Leu	Arg	Glu	Arg	Thr	Ala	Ile	Pro	Val	Ala	Gly
				85					90					95	
Cys	Ile	Val	Gln	Leu	Gly	Ser	Asp	Val	Val	Phe	Gly	Thr	Ala	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Ser
		115				120						125			
Pro	Leu	Leu	Tyr	Ser	Thr	Leu	Met	Ser	Pro	Lys	Val	Cys	Leu	Ile	Leu
		130				135					140				
Leu	Val	Ile	Ser	Tyr	Val	Gly	Gly	Cys	Val	Asn	Ser	Ser	Ser	Phe	Thr
145					150				155					160	
Ser	Cys	Leu	Leu	Ser	Leu	Thr	Phe	Cys	Gly	Pro	Asn	Lys	Val	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Pro	Leu	Val	Glu	Leu	Ser	Cys	Thr	His	Val
			180					185					190		
Tyr	Val	Ala	Glu	Met	Ser	Pro	Ala	Ile	Ser	Ala	Gly	Ser	Ile	Ile	Val
		195					200					205			

Ile	Thr	Leu	Phe	Val	Ile	Ile	Ile	Ser	Tyr	Val	Tyr	Ile	Leu	His	Ser
210					215					220					
Ile	Leu	Arg	Met	Arg	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Thr	Ser	His	Leu	Thr	Ala	Val	Thr	Leu	Phe	Tyr	Gly	Thr	Val	Thr
				245					250					255	
Phe	Val	Tyr	Val	Ile	Pro	Glu	Ser	Ser	His	Ser	Pro	Asn	Lys	Ile	Lys
			260					265					270		
Val	Val	Ser	Val	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu			
		275					280					285			

<210> 2483  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2483

Met	Lys	Asn	Gln	Ser	Val	Lys	Ile	Glu	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1			5					10					15		
Asp	Asp	Pro	Gln	Leu	Gln	Ile	Leu	Val	Phe	Leu	Phe	Leu	Phe	Phe	Asn
		20						25					30		
Tyr	Ile	Leu	Ser	Val	Met	Gly	Asn	Leu	Val	Ile	Ile	Leu	Leu	Thr	Leu
	35					40						45			
Leu	Asp	Pro	His	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
50						55					60				
Ser	Phe	Leu	Glu	Ile	Ala	Phe	Thr	Thr	Val	Cys	Ile	Pro	Arg	Phe	Leu
65				70					75						80
Met	Ser	Ile	Leu	Ser	Gly	Asp	Arg	Thr	Ile	Ser	Tyr	Asn	Ala	Cys	Ala
				85					90					95	
Ala	Gln	Leu	Phe	Phe	Phe	Phe	Leu	Leu	Gly	Ala	Thr	Glu	Phe	Tyr	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu
		115				120						125			
His	Tyr	Pro	Ile	Ile	Met	Asn	Ser	Lys	Val	Cys	His	Leu	Leu	Val	Leu
130						135					140				
Ser	Cys	Trp	Val	Thr	Gly	Phe	Leu	Val	Ile	Phe	Pro	Pro	Leu	Leu	Leu
145				150					155					160	
Gly	Leu	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Lys	Thr	Ile	Asp	His	Phe	Leu
			165						170				175		
Cys	Asp	Thr	Ser	Pro	Val	Leu	Gln	Leu	Ser	Cys	Thr	Asp	Thr	His	Phe
		180						185					190		
Ile	Glu	Leu	Met	Ala	Phe	Ala	Leu	Ala	Val	Met	Thr	Leu	Val	Ile	Thr
	195						200					205			
Leu	Ile	Leu	Val	Ile	Leu	Ser	Tyr	Ile	Leu	Ile	Ile	Lys	Thr	Ile	Leu
210						215					220				
Lys	Phe	Pro	Ser	Ala	Gln	Gln	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225				230						235					240
Ser	His	Met	Val	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Met
			245					250					255		
Tyr	Met	Lys	Thr	Ser	Ala	Lys	Glu	Arg	Val	Thr	Leu	Asn	Lys	Gly	Val
			260					265					270		
Ala	Val	Leu	Asn	Thr	Val	Ile	Lys	Arg	Val	Leu	Thr	Pro	Gly	Gln	Glu
		275					280					285			
Glu	His	Asn	Lys	Pro	Glu	Ser	Ser	Ala	Ala	Lys	Leu	Tyr	Cys	Leu	His
290						295					300				
Leu	Gln	Glu	Gln	Glu	Cys	Lys	Lys	Gln							

305

310

&lt;210&gt; 2484

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2484

```

Met Asn Glu Thr Asn Tyr Ser Arg Val Thr Glu Phe Val Leu Leu Gly
 1          5          10          15
Leu Ser Ser Ser Lys Glu Leu Gln Pro Phe Leu Phe Leu Ile Phe Ser
      20          25          30
Leu Leu Tyr Leu Ala Ile Leu Leu Gly Asn Phe Leu Ile Ile Leu Thr
      35          40          45
Val Thr Ser Asp Pro Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ala
      50          55          60
Asn Leu Ser Phe Ile Asp Met Cys Val Ala Ser Phe Ala Thr Pro Lys
      65          70          75          80
Met Leu Ala Asp Phe Leu Val Glu Arg Lys Thr Ile Ser Phe Glu Ala
      85          90          95
Cys Leu Ala Gln Ile Phe Phe Val His Leu Phe Thr Gly Gly Glu Met
      100          105          110
Val Leu Leu Val Ser Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys
      115          120          125
Pro Leu His Tyr Met Thr Ile Met Ser Arg Arg Val Cys Ile Ile Leu
      130          135          140
Val Cys Ile Ser Trp Phe Val Gly Phe Ile His Thr Thr Ser Gln Leu
      145          150          155          160
Ala Phe Thr Val Asn Leu Pro Phe Cys Gly Pro Asn Lys Val Asp Ser
      165          170          175
Phe Phe Cys Asp Leu Leu Leu Val Thr Lys Leu Ala Cys Ile Asp Thr
      180          185          190
Tyr Val Val Ser Leu Leu Ile Val Ala Asp Ser Gly Phe Leu Ser Met
      195          200          205
Ser Ser Phe Leu Leu Leu Val Val Ser Tyr Thr Val Ile Leu Ile Thr
      210          215          220
Val Arg Asn Arg Ser Ser Ala Ser Met Ala Lys Ala Arg Ser Thr Leu
      225          230          235          240
Thr Ala His Ile Thr Val Val Val Leu Phe Phe Gly Pro Cys Ile Phe
      245          250          255
Ile Tyr Val Trp Pro Phe Ser Ser Tyr Ser Val Asp Lys Val Leu Ala
      260          265          270
Val Phe Tyr Thr Ile Phe Thr Pro Ile Leu Asn Pro Val Ile Tyr Thr
      275          280          285
Leu Arg Asn Lys Glu Val Lys Ala Ala Met Ser Lys Leu Arg Gly Arg
      290          295          300
Tyr Leu Lys Pro Gly Gln Val Ser Ala Leu Ile Arg Asn Val Leu Phe
      305          310          315          320
Leu Glu Thr Lys

```

&lt;210&gt; 2485

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

<400> 2485

```
Met Lys Asn Lys Thr Ser Leu Thr Glu Phe Ile Leu Leu Gly Leu Thr
 1          5          10          15
Asp Val Pro Glu Leu Gln Val Ala Val Phe Thr Phe Leu Leu Ala
 20          25          30
Tyr Val Phe Ser Met Ile Gly Asn Leu Thr Ile Leu Val Leu Thr Leu
 35          40          45
Leu Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe
 50          55          60
Ser Phe Leu Glu Ile Ser Phe Thr Asn Ile Phe Ile Pro Arg Val Leu
 65          70          75          80
Val Ser Ile Thr Thr Gly Asn Lys Ser Ile Ser Phe Ala Gly Cys Phe
 85          90          95
Ala Gln Tyr Phe Phe Ala Ile Phe Leu Gly Ala Thr Glu Phe Tyr Leu
 100          105          110
Leu Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu
 115          120          125
His Tyr Met Ala Ile Met Ser Asn Arg Val Cys Thr His Leu Val Leu
 130          135          140
Cys Ser Trp Leu Gly Gly Leu Met Ala Ile Ile Pro Pro Ile Thr Leu
 145          150          155          160
Met Ser Gln Gln Asn Phe Cys Ala Ser Asn Arg Leu Asn His Tyr Phe
 165          170          175
Cys Asp Phe Glu Pro Leu Leu Glu Leu Ser Cys Ser Asp Thr Ser Leu
 180          185          190
Ile Glu Lys Val Val Phe Leu Val Ala Ser Val Thr Leu Val Val Thr
 195          200          205
Leu Met Leu Val Thr Leu Ser Tyr Thr Phe Ile Ile Lys Thr Ile Leu
 210          215          220
Lys Leu Pro Ser Ala Gln Gln Arg Thr Lys Ala Phe Ser Thr Cys Ser
 225          230          235          240
Ser His Met Ile Val Ile Ser Leu Ser Tyr Gly Ser Cys Phe Phe Met
 245          250          255
Tyr Val Lys Pro Ser Ala Lys Val Gly Gly Thr Phe Asp Lys Gly Val
 260          265          270
Ala Leu Leu Ile Thr Ser Val Ala Pro Leu Leu Asn Pro Phe Ile Tyr
 275          280          285
Thr Leu Arg Asn Gln Gln Val Lys Gln Ala Phe Lys Asp Thr Val Lys
 290          295          300
Lys Leu Val Asn Leu
305
```

<210> 2486

<211> 321

<212> PRT

<213> Mus musculus

<400> 2486

```
Met Asn Glu Arg Asn Tyr Ser His Val Thr Glu Phe Val Leu Leu Gly
 1          5          10          15
Leu Ser Ser Ser Lys Glu Leu Gln Pro Phe Leu Phe Leu Ile Phe Ser
 20          25          30
Leu Leu Tyr Leu Ala Ile Leu Leu Gly Asn Phe Leu Ile Ile Leu Thr
 35          40          45
Val Thr Ser Asp Pro Arg Leu His Thr Pro Met Tyr Phe Leu Leu Ala
```

50		55		60	
Asn Leu Ser Phe Ile	Asp Met Cys Val Ala	Ser Phe Ala Thr Pro Lys			
65	70	75	80		
Met Leu Ala Asp Phe	Leu Val Glu Arg Lys Thr	Ile Ser Phe Lys Ala			
	85	90	95		
Cys Leu Ala Gln Ile	Phe Cys Ile His Leu Phe	Gly Gly Gly Glu Met			
	100	105	110		
Val Leu Leu Val Ser	Met Ala Tyr Asp Arg Tyr	Val Ala Ile Cys Lys			
	115	120	125		
Pro Leu His Tyr Met	Thr Ile Met Ser Arg Arg	Val Cys Ile Thr Leu			
	130	135	140		
Val Ile Met Pro Trp	Phe Val Gly Phe Ile His	Thr Thr Ser Gln Leu			
145	150	155	160		
Ala Phe Thr Val Asn	Leu Pro Phe Cys Gly Pro	Asn Gln Val Asp Ser			
	165	170	175		
Phe Phe Cys Asp Leu	Pro Leu Val Thr Lys Leu	Ala Cys Thr Asp Thr			
	180	185	190		
Tyr Phe Val Ser Leu	Leu Ile Val Ala Asp Ser	Gly Val Leu Thr Leu			
	195	200	205		
Ser Thr Phe Val Phe	Leu Val Ile Ser Tyr Thr	Val Val Leu Ile Thr			
	210	215	220		
Val Arg Asn Arg Ser	Ser Ala Ser Met Ala Lys	Ala Arg Ser Thr Leu			
225	230	235	240		
Thr Ala His Ile Ile	Val Val Val Leu Phe	Gly Pro Cys Ile Phe			
	245	250	255		
Val Tyr Ala Cys Pro	Leu Asn Gly Ser Val	Asp Lys Val Leu Ala			
	260	265	270		
Val Phe Tyr Thr Ile	Phe Thr Pro Ile Leu	Asn Pro Leu Ile Tyr Thr			
	275	280	285		
Leu Arg Asn Lys Asp	Met Lys Ala Ala Met Ser	Lys Leu Arg Gly Gln			
	290	295	300		
Tyr Met Lys Pro Arg	Gln Val Phe Glu Leu	Val Arg Asn Val Leu Phe			
305	310	315	320		
Leu					

<210> 2487

<211> 321

<212> PRT

<213> Mus musculus

<400> 2487

Met Asn Glu Arg Asn	Tyr Ser Arg Val Thr	Glu Phe Val Leu Leu Gly			
1	5	10	15		
Leu Ser Ser Ser Lys	Glu Leu Gln Pro Phe	Leu Phe Leu Ile Phe Ser			
	20	25	30		
Leu Leu Tyr Leu Ala	Ile Leu Leu Gly Asn	Phe Leu Ile Ile Leu Thr			
	35	40	45		
Val Thr Ser Asp Pro	Arg Leu His Thr Pro	Met Tyr Phe Leu Leu Ala			
	50	55	60		
Asn Leu Ser Phe Ile	Asp Met Cys Val Ala	Ser Phe Ala Thr Pro Lys			
65	70	75	80		
Met Leu Ala Asp Phe	Leu Val Glu Arg Lys	Thr Ile Ser Phe Glu Ala			
	85	90	95		
Cys Leu Ala Gln Ile	Phe Cys Val His Gln	Phe Ala Gly Gly Glu Met			
	100	105	110		



Val	Leu	Leu	Val	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115						120					125			
Pro	Leu	His	Tyr	Met	Thr	Ile	Met	Ser	Arg	Arg	Val	Cys	Ile	Thr	Leu
	130					135					140				
Val	Ile	Ile	Pro	Trp	Phe	Val	Gly	Phe	Ile	His	Thr	Met	Ser	Gln	Leu
145					150					155					160
Ala	Phe	Thr	Val	Asn	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Gln	Val	Asp	Ser
			165						170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Leu	Val	Thr	Lys	Leu	Ala	Cys	Thr	Asp	Thr
			180					185					190		
Tyr	Phe	Val	Ser	Leu	Leu	Ile	Val	Ala	Asp	Ser	Gly	Val	Leu	Thr	Leu
		195					200					205			
Ser	Thr	Phe	Val	Phe	Leu	Val	Ile	Ser	Tyr	Thr	Val	Ile	Leu	Ile	Thr
	210					215					220				
Val	Arg	Asn	Arg	Ser	Ser	Ala	Ser	Met	Ala	Lys	Ala	Arg	Ser	Thr	Leu
225					230					235					240
Thr	Ala	His	Ile	Thr	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe
				245					250					255	
Ile	Tyr	Ala	Trp	Pro	Phe	Asn	Gly	Tyr	Ser	Val	Asp	Lys	Val	Leu	Ala
			260					265					270		
Val	Phe	Tyr	Thr	Ile	Phe	Thr	Pro	Ile	Leu	Asn	Pro	Leu	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Lys	Glu	Val	Lys	Ala	Ala	Met	Ser	Lys	Leu	Arg	Gly	Arg
	290					295					300				
Tyr	Leu	Lys	Pro	Gly	Gln	Val	Ser	Glu	Leu	Ile	Arg	Asn	Val	Leu	Phe
305					310					315					320
Met															

<210> 2488  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2488

Met	Asp	Arg	Gly	Asn	Thr	Thr	Ala	Gly	Phe	Val	Leu	Leu	Gly	Leu	Phe
1				5					10					15	
Asn	His	Thr	Arg	Ala	His	Leu	Phe	Leu	Phe	Val	Leu	Val	Leu	Thr	Val
			20					25					30		
Ala	Phe	Asn	Ser	Val	Val	Gly	Asn	Ala	Leu	Leu	Leu	Leu	Ile	His	
		35					40					45			
Gln	Asp	Arg	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Leu	Leu	Ser	Gln	Leu
	50					55					60				
Ser	Leu	Met	Asp	Met	Met	Leu	Val	Ser	Thr	Val	Val	Pro	Gln	Met	Ala
65					70					75				80	
Ala	Gly	Tyr	Leu	Met	Gly	Lys	Lys	Phe	Ile	Ser	Ala	Ala	Gly	Cys	Gly
				85					90					95	
Phe	Gln	Ile	Phe	Phe	Phe	Leu	Thr	Leu	Gly	Gly	Gly	Glu	Cys	Phe	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu
		115					120					125			
Arg	Tyr	Pro	Val	Leu	Met	Ser	Trp	Gln	Leu	Cys	Leu	Arg	Leu	Thr	Val
	130					135					140				
Ala	Ser	Trp	Leu	Leu	Gly	Ala	Ala	Asp	Gly	Ala	Met	Gln	Ala	Ala	Ala
145					150					155					160
Thr	Leu	Ser	Phe	Gln	Phe	Cys	Ser	Arg	Asn	Glu	Ile	Asp	His	Phe	Phe

				165					170					175			
Cys	Glu	Ala	Pro	Val	Leu	Leu	Arg	Leu	Ala	Cys	Gly	Asp	Thr	Ser	Ala		
			180						185					190			
Phe	Glu	Phe	Phe	Met	Tyr	Ile	Cys	Cys	Val	Leu	Met	Leu	Leu	Ile	Pro		
		195					200						205				
Phe	Ser	Leu	Ile	Leu	Met	Ser	Tyr	Gly	Leu	Ile	Leu	Ala	Ala	Val	Leu		
	210						215					220					
Arg	Met	Arg	Ser	Thr	Glu	Ala	Arg	Lys	Lys	Ala	Phe	Ala	Thr	Cys	Ser		
225					230					235					240		
Ser	His	Leu	Ala	Val	Val	Gly	Leu	Phe	Tyr	Gly	Ala	Ala	Thr	Phe	Ser		
				245					250					255			
Tyr	Met	Arg	Pro	Thr	Ser	Ser	Arg	Ser	Ala	Asn	His	Asp	Lys	Val	Val		
			260					265					270				
Ser	Ala	Phe	Tyr	Thr	Ile	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr		
		275					280					285					
Ser	Leu	Arg	Asn	Ser	Glu	Val	Lys	Gly	Ser	Leu	Arg	Lys	Cys	Val	Thr		
	290					295				300							
Arg	Cys	Ala	Ala	Leu	Thr	Ser	Lys	Asp	Ala	Leu	Ala						
305					310					315							

<210> 2489

<211> 315

<212> PRT

<213> Mus musculus

<400> 2489

Met	Gln	Asp	Phe	Leu	Trp	Arg	Asn	Arg	Ser	Ser	Leu	Thr	Glu	Phe	Val		
1				5					10					15			
Leu	Leu	Gly	Phe	Ser	Ser	Asn	Thr	Gln	Ile	Asn	Gly	Ile	Leu	Phe	Gly		
			20					25					30				
Ile	Phe	Leu	Leu	Leu	Tyr	Leu	Thr	Thr	Leu	Leu	Gly	Asn	Gly	Leu	Ile		
	35						40					45					
Ile	Thr	Leu	Ile	His	Met	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe		
	50					55					60						
Phe	Leu	Ser	Val	Leu	Ser	Ile	Leu	Asp	Met	Gly	Tyr	Val	Thr	Thr	Thr		
65					70				75					80			
Val	Pro	Gln	Met	Leu	Val	His	Leu	Val	Cys	Lys	Lys	Lys	Thr	Ile	Ser		
			85					90					95				
Tyr	Val	Gly	Cys	Val	Ala	Gln	Met	Tyr	Ile	Phe	Leu	Met	Leu	Gly	Ile		
		100						105					110				
Thr	Glu	Ser	Trp	Leu	Phe	Ala	Ile	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala		
		115					120					125					
Ile	Cys	His	Pro	Leu	Arg	Tyr	Lys	Val	Ile	Met	Ser	Pro	Leu	Leu	Arg		
	130					135					140						
Gly	Ser	Leu	Val	Ala	Phe	Cys	Gly	Phe	Trp	Gly	Ile	Thr	Cys	Ala	Leu		
145				150					155					160			
Ile	Tyr	Thr	Val	Ser	Ala	Met	Ile	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Glu		
			165					170					175				
Ile	Asn	His	Phe	Phe	Cys	Glu	Val	Pro	Ala	Val	Leu	Lys	Leu	Ala	Cys		
		180						185					190				
Ala	Asp	Thr	Ser	Leu	Asn	Asp	Gln	Val	Asp	Phe	Ile	Leu	Gly	Phe	Ile		
		195					200					205					
Leu	Leu	Leu	Val	Pro	Leu	Ser	Leu	Ile	Ile	Val	Val	Tyr	Ile	Asn	Ile		
	210					215					220						
Phe	Ala	Ala	Ile	Leu	Arg	Ile	Arg	Ser	Thr	Gln	Gly	Arg	Ile	Lys	Ala		
225					230					235					240		

Phe	Ser	Thr	Cys	Val	Ser	His	Ile	Thr	Val	Val	Thr	Met	Phe	Ser	Ile
				245					250					255	
Pro	Cys	Met	Val	Met	Tyr	Met	Arg	Pro	Gly	Ser	Glu	Ser	Ser	Pro	Glu
			260					265					270		
Glu	Asp	Lys	Lys	Leu	Ala	Leu	Phe	Tyr	Asn	Val	Ile	Ser	Ala	Phe	Leu
		275					280					285			
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Arg	Ala	Phe
	290					295					300				
Leu	Lys	Val	Val	Gly	Ser	Arg	Lys	Gly	Ser	Glu					
305					310					315					

<210> 2490

<211> 312

<212> PRT

<213> Mus musculus

<400> 2490

Met	Thr	Arg	Asn	Phe	Thr	Ser	Val	Thr	Glu	Phe	Ile	Leu	Leu	Gly	Leu
1				5					10					15	
Thr	Ser	His	Val	Glu	Leu	Gln	Ile	Leu	Phe	Phe	Val	Leu	Phe	Leu	Val
			20					25					30		
Val	Tyr	Val	Val	Thr	Val	Ala	Gly	Asn	Leu	Gly	Met	Ile	Leu	Leu	Ile
		35					40					45			
Lys	Ala	Asn	Ala	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
	50					55					60				
Leu	Ser	Phe	Val	Asp	Met	Cys	Phe	Ser	Ser	Asn	Val	Thr	Pro	Lys	Met
65					70					75					80
Leu	Gln	Ile	Phe	Leu	Ser	Glu	Arg	Lys	Thr	Ile	Ser	Tyr	Ser	Ala	Cys
				85					90					95	
Leu	Val	Gln	Cys	Tyr	Leu	Phe	Ile	Ala	Leu	Val	His	Val	Glu	Phe	Tyr
			100					105					110		
Ile	Leu	Ala	Leu	Met	Ala	Phe	Asp	Arg	Tyr	Met	Ala	Ile	Cys	Asn	Pro
		115					120					125			
Leu	Leu	Tyr	Gly	Ser	Lys	Met	Ser	Gln	Ser	Val	Cys	Thr	Ser	Leu	Ile
	130					135					140				
Thr	Val	Pro	Tyr	Val	Tyr	Gly	Ala	Leu	Thr	Gly	Leu	Met	Glu	Thr	Met
145					150					155					160
Trp	Thr	Tyr	Asn	Leu	Ala	Phe	Cys	Gly	His	Asn	Glu	Ile	Asn	His	Phe
			165						170					175	
Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Ile	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Tyr
			180					185					190		
His	Lys	Glu	Thr	Ser	Met	Leu	Val	Ala	Gly	Phe	Asn	Leu	Ser	Phe	
		195					200				205				
Ser	Leu	Leu	Ile	Ile	Leu	Thr	Ser	Tyr	Leu	Tyr	Ile	Phe	Pro	Ala	Ile
	210					215					220				
Leu	Arg	Ile	Ser	Ser	Thr	Glu	Gly	Lys	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Gly	Ser	His	Leu	Thr	Ala	Val	Ile	Ile	Phe	Tyr	Ala	Thr	Leu	Phe	Phe
				245					250					255	
Met	Tyr	Leu	Arg	Pro	Thr	Ser	Arg	Glu	Ser	Val	Glu	Gln	Gly	Lys	Met
			260					265					270		
Val	Ala	Val	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Leu	Asn	Pro	Met	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	Ile	Ser	Lys	Glu	Leu
	290					295					300				
Ser	His	Lys	Lys	Met	Tyr	Phe	Ser								

305

310

<210> 2491  
 <211> 297  
 <212> PRT  
 <213> Mus musculus

<400> 2491  
 Leu Leu Gly Phe Thr Ser Asp Pro Thr Thr Gln Leu Val Leu Phe Val  
 1 5 10 15  
 Met Phe Leu Ile Met Tyr Thr Leu Ser Val Leu Gly Asn Ile Thr Leu  
 20 25 30  
 Ile Val Leu Ile Cys Asn Asp Ser Arg Leu His Thr Pro Met Tyr Phe  
 35 40 45  
 Phe Ile Gly Asn Leu Ser Phe Leu Asp Leu Trp Leu Ser Asn Val Tyr  
 50 55 60  
 Thr Pro Lys Ile Leu Ala Ile Cys Ile Ser Glu Asn Lys Ser Ile Ser  
 65 70 75 80  
 Phe Ala Ser Cys Val Ala Gln Phe Phe Phe Ser Ala Gly Leu Asp Tyr  
 85 90 95  
 Ser Glu Cys Tyr Leu Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala  
 100 105 110  
 Ile Ser Lys Pro Leu Ile Tyr Ser Gln Ala Ile Ser Met Lys Leu Cys  
 115 120 125  
 Ala Phe Phe Val Ala Ala Ser Tyr Met Gly Gly Phe Ile Asn Ser Ser  
 130 135 140  
 Ile Ile Thr Lys Lys Thr Phe Thr Phe Asp Phe Cys Asn Asp Asn Val  
 145 150 155 160  
 Ile Asp Asp Phe Phe Cys Asp Leu Leu Pro Leu Val Asn Leu Ala Cys  
 165 170 175  
 Gly Gly Lys Glu Gly Tyr Gln Ala Leu Met Tyr Phe Leu Leu Thr Ser  
 180 185 190  
 Asn Val Met Ile Pro Ile Ala Leu Ile Leu Ala Ser Tyr Ile Phe Ile  
 195 200 205  
 Ile Ala Thr Ile Leu Arg Ile Arg Ser Thr Gln Gly Arg Met Lys Ala  
 210 215 220  
 Phe Ser Thr Cys Ser Ser His Leu Ile Ser Val Thr Leu Tyr Tyr Gly  
 225 230 235 240  
 Ser Ile Leu Tyr Ile Tyr Ser Arg Pro Arg Thr Arg Tyr Ser Leu Asp  
 245 250 255  
 Ser Asp Lys Val Val Ser Thr Phe Tyr Thr Val Val Phe Pro Met Leu  
 260 265 270  
 Asn Pro Phe Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Met  
 275 280 285  
 Asn Lys Leu Phe Lys Ile Ile Pro Leu  
 290 295

<210> 2492  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2492  
 Met Gly Pro Ala Asn Lys Ser Gln Leu Ser Pro Ser Thr Phe Trp Leu  
 1 5 10 15

Met	Gly	Ile	Pro	Gly	Leu	Glu	His	Leu	His	Val	Trp	Ile	Gly	Ile	Pro
			20					25					30		
Phe	Cys	Ser	Met	Tyr	Met	Val	Ala	Leu	Met	Gly	Asn	Val	Thr	Ile	Leu
		35					40				45				
Ala	Val	Val	Arg	Ala	Glu	Arg	Thr	Leu	His	Glu	Pro	Met	Phe	Leu	Phe
	50					55					60				
Leu	Cys	Met	Leu	Ser	Val	Thr	Asp	Leu	Val	Leu	Ser	Thr	Ser	Thr	Leu
65					70					75					80
Pro	Arg	Met	Leu	Cys	Leu	Phe	Trp	Met	Ala	Ala	His	Asp	Ile	Thr	Phe
			85						90					95	
Asp	Ala	Cys	Leu	Ala	Gln	Met	Phe	Phe	Ile	His	Ser	Phe	Thr	Ala	Met
			100					105					110		
Glu	Ser	Gly	Phe	Phe	Leu	Ala	Met	Ala	Ile	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Cys	Asp	Pro	Leu	Arg	His	Ala	Thr	Ile	Leu	Thr	His	Ser	Arg	Ile	Ala
	130					135					140				
Val	Met	Gly	Ala	Val	Val	Val	Leu	Arg	Gly	Val	Gly	Phe	Phe	Ser	Pro
145					150					155					160
His	Pro	Ile	Leu	Leu	Lys	Gln	Leu	Pro	Tyr	Cys	Arg	Thr	Arg	Ile	Ile
			165						170					175	
Ala	His	Thr	Tyr	Cys	Glu	Phe	Met	Ala	Val	Val	Lys	Leu	Ala	Cys	Leu
		180						185					190		
Glu	Ile	Gly	Ala	Thr	Lys	Arg	Tyr	Ser	Leu	Gly	Val	Ala	Phe	Gly	Ile
		195					200					205			
Gly	Ser	Cys	Asp	Cys	Phe	Phe	Ile	Ala	Ile	Ser	Tyr	Val	Leu	Ile	Leu
	210					215					220				
Arg	Ala	Val	Phe	Arg	Leu	Pro	Ser	Arg	Glu	Ala	Ser	Leu	Lys	Ala	Leu
225					230					235					240
Gly	Thr	Cys	Gly	Ser	His	Val	Cys	Val	Ile	Val	Val	Phe	Tyr	Ser	Thr
			245						250					255	
Ala	Gly	Phe	Thr	Phe	Leu	Thr	His	Arg	Phe	Gly	His	Ser	Val	Ala	Pro
		260						265					270		
Arg	Thr	His	Ile	Leu	Ile	Ala	Asn	Met	Tyr	Leu	Leu	Val	Pro	Pro	Phe
		275					280					285			
Leu	Asn	Pro	Ile	Val	Tyr	Gly	Val	Arg	Thr	Lys	Lys	Ile	Arg	Asp	Tyr
	290					295					300				
Val	Leu	Asn	Thr	Leu	Lys	Val	Lys	Gly	Ser						
305					310										

<210> 2493

<211> 310

<212> PRT

<213> Mus musculus

<400> 2493

Met	Ala	Thr	Glu	Asn	Ala	Ser	Val	Pro	Glu	Phe	Ile	Leu	Ala	Gly	Leu
1				5					10					15	
Thr	Asp	Gln	Pro	Gly	Leu	Arg	Met	Pro	Leu	Phe	Phe	Leu	Phe	Leu	Gly
			20					25					30		
Phe	Tyr	Met	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Ile	Thr	Leu	Ile
		35					40					45			
Gly	Leu	Asn	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Phe	Asn
	50					55					60				
Leu	Ser	Leu	Ile	Asp	Phe	Cys	Tyr	Ser	Thr	Val	Ile	Thr	Pro	Lys	Met
65					70					75					80
Leu	Val	Ser	Phe	Val	Ser	Lys	Lys	Asn	Ile	Ile	Ser	Tyr	Ser	Gly	Cys



Ala	Pro	Met	Ser	Val	Pro	Val	Leu	Ala	Ala	Gln	Arg	Asn	Tyr	Cys	Ser	165	170	175
Arg	Asn	Gln	Ile	Asn	His	Cys	Phe	Cys	Pro	Asn	Pro	Gly	Val	Thr	Ser	180	185	190
Leu	Ala	Cys	Asp	Asp	Arg	Lys	Ile	Asp	Ser	Ile	Asn	Gln	Leu	Phe	Leu	195	200	205
Ala	Trp	Ala	Val	Met	Gly	Ser	Asp	Leu	Gly	Leu	Ile	Ile	Val	Ser	Tyr	210	215	220
Ala	Leu	Ile	Leu	Pro	Ser	Val	Leu	Arg	Leu	Asn	Ser	Pro	Lys	Ala	Ala	225	230	235
Ser	Gln	Thr	Leu	Ser	Thr	Cys	Thr	Ser	His	Leu	Ile	Leu	Ile	Phe	Phe	245	250	255
Phe	Tyr	Thr	Val	Ile	Ile	Val	Met	Pro	Ile	Thr	His	Ser	Ala	Lys	Met	260	265	270
Thr	Val	Pro	Val	Ile	Leu	Leu	Leu	Leu	Asn	Val	Pro	His	Asn	Val	Ile	275	280	285
Pro	Pro	Ala	Leu	Asn	Pro	Met	Val	Tyr	Ala	Leu	Lys	Asn	Lys	Glu	Leu	290	295	300
Lys	Glu	Gly	Phe	Tyr	Leu	Cys	Ser	Gly	Trp							305		310

<210> 2495

<211> 319

<212> PRT

<213> Mus musculus

<400> 2495

Met	Ser	Ala	Ser	Leu	Lys	Ala	Phe	Asn	Ser	Ser	Lys	Ser	Gln	Val	Ser	1	5	10	15
Glu	Phe	Ile	Leu	Leu	Gly	Phe	Pro	Gly	Ile	His	Ser	Trp	Gln	His	Trp	20	25	30	
Leu	Ser	Leu	Pro	Phe	Thr	Leu	Leu	Tyr	Leu	Ser	Ala	Ile	Gly	Thr	Asn	35	40	45	
Val	Leu	Ile	Leu	Ile	Ile	Ile	Cys	Gln	Asp	Pro	Ser	Leu	Lys	Gln	Pro	50	55	60	
Met	Tyr	Leu	Phe	Leu	Gly	Ile	Leu	Ser	Val	Val	Asp	Met	Gly	Leu	Ala	65	70	75	80
Thr	Thr	Ile	Met	Pro	Lys	Ile	Leu	Ala	Ile	Phe	Trp	Phe	Asp	Ala	Lys	85	90	95	
Val	Ile	Ser	Leu	Pro	Glu	Cys	Phe	Ala	Gln	Ile	Tyr	Ala	Ile	His	Cys	100	105	110	
Phe	Val	Gly	Met	Glu	Ser	Gly	Ile	Phe	Leu	Cys	Met	Ala	Phe	Asp	Arg	115	120	125	
Tyr	Val	Ala	Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Ser	Ser	Ile	Ile	Thr	Asn	130	135	140	
Ser	Leu	Ile	Leu	Lys	Ala	Thr	Leu	Phe	Met	Val	Leu	Arg	Asn	Gly	Leu	145	150	155	160
Cys	Val	Ile	Pro	Val	Pro	Val	Leu	Ala	Ala	Gln	Arg	Asn	Tyr	Cys	Ser	165	170	175	
Arg	Asn	Glu	Ile	Asp	His	Cys	Leu	Cys	Ser	Asn	Leu	Gly	Val	Thr	Ser	180	185	190	
Leu	Ala	Cys	Asp	Asp	Arg	Arg	Pro	Asn	Ser	Ile	Cys	Gln	Leu	Ile	Leu	195	200	205	
Ala	Trp	Val	Gly	Met	Gly	Ser	Asp	Leu	Gly	Leu	Ile	Ile	Leu	Ser	Tyr	210	215	220	
Thr	Leu	Ile	Leu	Arg	Ser	Val	Leu	Arg	Leu	Asn	Ser	Ala	Glu	Ala	Val				

225		230		235		240									
Ser	Lys	Ala	Leu	Asn	Thr	Cys	Ser	Ser	His	Leu	Ile	Leu	Ile	Leu	Phe
				245					250					255	
Phe	Tyr	Thr	Val	Val	Val	Val	Ile	Ser	Val	Thr	His	Leu	Ser	Glu	Thr
			260						265					270	
Lys	Ala	Thr	Leu	Ile	Pro	Val	Leu	Leu	Asn	Val	Met	His	Asn	Ile	Thr
		275							280				285		
Pro	Pro	Ser	Leu	Asn	Pro	Ile	Val	Tyr	Ala	Leu	Arg	Thr	Arg	Gln	Leu
		290					295				300				
Arg	Gln	Gly	Phe	Gln	Lys	Val	Leu	Cys	Arg	Ser	Leu	Gln	Glu	Lys	
305					310					315					

<210> 2496  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2496

Met	Ala	Phe	Leu	Glu	Asp	Gly	Asn	His	Thr	Val	Val	Thr	Glu	Phe	Ile
1				5					10					15	
Leu	Leu	Gly	Leu	Thr	Asp	Asp	Pro	Val	Leu	Arg	Val	Ile	Leu	Phe	Ile
			20					25					30		
Ile	Ile	Leu	Cys	Ile	Tyr	Leu	Val	Thr	Val	Ser	Gly	Asn	Leu	Ser	Thr
		35					40					45			
Ile	Leu	Leu	Ile	Arg	Val	Ser	Gln	Leu	His	His	Pro	Met	Tyr	Phe	
	50					55				60					
Phe	Leu	Ser	His	Leu	Ala	Ser	Ile	Asp	Ile	Ala	Ile	Ser	Ser	Ser	Val
65					70					75					80
Thr	Pro	Asn	Met	Val	Val	Asn	Phe	Leu	Val	Glu	Arg	Ser	Ser	Ile	Ser
				85					90					95	
Tyr	Ile	Gly	Cys	Gly	Ile	Gln	Leu	Gly	Ser	Ala	Val	Phe	Phe	Gly	Ala
			100					105					110		
Ile	Glu	Cys	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala
		115					120					125			
Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Ser	Thr	Lys	Met	Ser	Lys	Gln	Val	Cys
	130					135					140				
Ile	Gln	Leu	Leu	Val	Gly	Ser	Tyr	Ile	Gly	Gly	Phe	Ile	His	Ala	Ser
145					150					155					160
Phe	Phe	Thr	Leu	Ser	Phe	Val	Ser	Phe	Leu	Phe	Cys	Gly	Pro	Asn	Arg
				165					170					175	
Ile	Asn	His	Phe	Phe	Cys	Asp	Phe	Thr	Pro	Leu	Val	Glu	Leu	Ser	Cys
			180					185					190		
Ser	Asp	Asn	Ser	Val	Leu	Ile	Ile	Leu	Asp	Ser	Phe	Ser	Thr	Gly	Thr
		195					200					205			
Ile	Ile	Val	Ile	Thr	Val	Phe	Val	Ile	Ala	Ile	Ser	Tyr	Thr	Cys	Ile
	210					215					220				
Leu	Ile	Thr	Ile	Leu	Lys	Met	His	Ser	Thr	Glu	Gly	Arg	His	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Val	Val	Thr	Leu	Leu	Tyr	Gly
				245					250					255	
Thr	Val	Thr	Phe	Ile	Tyr	Val	Met	Pro	Lys	Ser	Ser	Tyr	Ser	Thr	Asp
			260					265					270		
Gln	Asn	Lys	Val	Ile	Ser	Val	Phe	Tyr	Met	Val	Val	Ile	Pro	Met	Leu
		275					280					285			
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Gly	Ala	Leu
	290					295					300				



Lys Lys Gln Leu Gly Glu Lys Asn Ile Phe  
 305 310

<210> 2497  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2497  
 Met Ala Phe Leu His Asn Gly Asn His Thr Ala Val Thr Glu Phe Ile  
 1 5 10 15  
 Leu Leu Gly Leu Thr Asp Asp Pro Val Phe Arg Val Ile Leu Phe Thr  
 20 25 30  
 Ile Ile Leu Cys Ile Tyr Leu Val Thr Val Ser Gly Asn Leu Ser Thr  
 35 40 45  
 Ile Leu Leu Ile Arg Val Ser Ser Gln Leu His His Pro Met Tyr Phe  
 50 55 60  
 Phe Leu Ser His Leu Ala Ser Val Asp Ile Gly Tyr Ser Ser Ser Val  
 65 70 75 80  
 Thr Pro Asn Met Leu Ala Asn Phe Leu Val Glu Lys Asn Thr Ile Ser  
 85 90 95  
 Tyr Leu Gly Cys Thr Ile Gln Leu Ser Leu Ala Ala Phe Cys Gly Thr  
 100 105 110  
 Val Glu Cys Phe Leu Leu Ala Thr Met Ala Tyr Asp Arg Phe Met Ala  
 115 120 125  
 Ile Cys Ser Pro Leu Leu Tyr Ser Thr Lys Met Ser Thr Gln Val Cys  
 130 135 140  
 Ile Gln Leu Ile Val Gly Ser Tyr Ile Gly Gly Phe Leu Asn Ala Ser  
 145 150 155 160  
 Ser Phe Thr Leu Phe Phe Leu Ser Phe Leu Phe Cys Gly Pro Asn Arg  
 165 170 175  
 Ile Asn His Phe Tyr Cys Asp Phe Ala Pro Leu Val Ala Leu Ser Cys  
 180 185 190  
 Ser Asp Val Ser Val Ser Glu Val Val Thr Ser Phe Phe Ser Gly Ser  
 195 200 205  
 Val Thr Met Ile Thr Met Leu Val Ile Ala Ile Ser Tyr Thr Tyr Ile  
 210 215 220  
 Leu Ile Thr Ile Leu Lys Met Arg Ser Thr Glu Gly Arg His Lys Ala  
 225 230 235 240  
 Phe Ser Thr Cys Thr Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly  
 245 250 255  
 Thr Ile Thr Phe Ile Tyr Val Met Pro Lys Ser Ser Phe Ser Thr Asp  
 260 265 270  
 Gln Asn Lys Val Val Ser Val Phe Tyr Met Val Val Ile Pro Met Leu  
 275 280 285  
 Asn Pro Leu Ile Tyr Ser Leu Arg Asn Asn Glu Ile Lys Asp Ala Leu  
 290 295 300  
 Lys Arg His Leu Gly Lys Lys Ile Phe Ser  
 305 310

<210> 2498  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2498

```
Met Arg Asn Ile Thr Glu Ala Thr Phe Phe Val Leu Lys Gly Leu Thr
 1           5           10           15
Asp Asn Asn Glu Leu Gln Ile Ile Leu Phe Leu Leu Phe Leu Ala Ile
 20           25           30
Tyr Ile Phe Thr Leu Ile Gly Asn Val Gly Leu Ile Ile Leu Val Val
 35           40           45
Gly Asp Ser Gln Leu His Asn Pro Met Tyr Cys Phe Leu Ser Val Leu
 50           55           60
Ser Ser Val Asp Ala Cys Tyr Ser Thr Asp Ile Thr Pro Asn Met Leu
 65           70           75           80
Val Gly Phe Met Ser Lys Ser Lys Ile Ile Ser Phe Tyr Gly Cys Ala
 85           90           95
Thr Gln Met Phe Leu Ala Val Thr Phe Gly Thr Thr Glu Cys Phe Leu
 100          105          110
Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile His Asp Pro Leu
 115          120          125
Leu Tyr Ala Val Ser Met Ser Pro Arg Val Tyr Ile Pro Leu Ile Ile
 130          135          140
Ala Ser Tyr Ala Gly Gly Ile Val His Ala Ile Ile His Thr Val Ala
 145          150          155          160
Thr Phe Ser Leu Ser Phe Cys Arg Ser Asn Glu Val Lys His Ile Phe
 165          170          175
Cys Asp Ile Pro Pro Leu Leu Ala Ile Ser Cys Ser Glu Thr Tyr Val
 180          185          190
Asn Glu Leu Leu Leu Phe Phe Phe Val Ser Phe Ile Glu Leu Val Thr
 195          200          205
Ile Leu Ile Val Leu Val Ser Tyr Ala Phe Ile Leu Leu Ser Ile Leu
 210          215          220
Lys Met Asn Ser Ser Glu Gly Arg Arg Lys Val Phe Ser Thr Cys Gly
 225          230          235          240
Ala His Leu Thr Ala Val Ser Ile Tyr Tyr Gly Thr Ile Leu Phe Met
 245          250          255
Tyr Val Arg Pro Ser Ser Asn Tyr Ser Leu Glu His Asp Met Ile Val
 260          265          270
Ser Thr Phe Tyr Thr Ile Gly Ile Pro Met Leu Asn Pro Ile Ile Tyr
 275          280          285
Ser Leu Arg Asn Lys Asp Val Lys Glu Ala Met Lys Arg Val Leu Arg
 290          295          300
Lys Lys Ile Asn
305
```

<210> 2499

<211> 315

<212> PRT

<213> Mus musculus

<400> 2499

```
Met Trp Met Ile Pro Gly Gln Asn Gln Ser Trp Val Ser Glu Phe Ile
 1           5           10           15
Leu Ile Gly Phe Ser Ser Asp Pro Thr Thr Asn Ser Ile Leu Phe Ile
 20           25           30
Val Phe Leu Leu Met Tyr Leu Ser Ser Val Leu Gly Asn Gly Leu Ile
 35           40           45
Ile Met Leu Val Cys Leu Asp Thr Gln Leu His Thr Pro Met Tyr Phe
 50           55           60
```

Phe	Leu	Cys	Thr	Leu	Ser	Leu	Leu	Asp	Met	Gly	Tyr	Val	Thr	Thr	Thr
65					70					75					80
Met	Pro	Gln	Met	Leu	Val	His	Leu	Leu	Ala	His	Ser	Gln	Thr	Ile	Ser
				85					90					95	
Phe	Ala	Gly	Cys	Trp	Leu	Gln	Met	Tyr	Val	Phe	Gly	Ala	Leu	Gly	Met
			100					105					110		
Thr	Glu	Cys	Thr	Phe	Phe	Val	Val	Met	Ala	Tyr	His	Arg	Tyr	Val	Ala
		115					120					125			
Ile	Cys	Tyr	Pro	Leu	Arg	Tyr	Thr	Val	Ile	Leu	Asn	Trp	Gly	Leu	Cys
	130					135					140				
Ile	Arg	Leu	Ala	Gly	Gly	Ser	Trp	Ile	Cys	Gly	Leu	Phe	Ser	Ser	Leu
145					150					155					160
Leu	His	Thr	Phe	Phe	Thr	Met	Ser	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Arg
				165					170					175	
Ile	Asn	His	Tyr	Phe	Cys	Glu	Gly	Pro	Ser	Val	Arg	Ser	Leu	Ala	Cys
			180					185					190		
Met	Asp	Thr	His	Val	Ile	Glu	Met	Val	Asp	Phe	Val	Leu	Ser	Val	Phe
		195					200					205			
Val	Val	Val	Ile	Pro	Ile	Ser	Leu	Ile	Val	Ala	Ser	Tyr	Ile	Gly	Ile
	210					215					220				
Ala	Met	Ala	Ile	Leu	Lys	Ile	Lys	Ser	Asn	Gln	Gly	Arg	Cys	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Thr	Phe	Phe	Tyr	Ala
				245					250					255	
Pro	Ala	Ser	Tyr	Ile	Tyr	Met	Arg	Pro	Asn	Ser	Ser	Tyr	Ser	Pro	Glu
			260					265					270		
Arg	Asp	Lys	Gln	Ile	Ser	Leu	Phe	Tyr	Asn	Val	Phe	Thr	Ala	Leu	Leu
		275					280					285			
Asn	Pro	Val	Val	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Ile	Lys	Arg	Ala	Phe
	290					295					300				
Leu	Lys	Val	Met	Gly	His	Gly	Arg	Leu	Ala	Trp					
305					310					315					

<210> 2500

<211> 327

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (289)...(296)

<223> Any amino acid

<400> 2500

Met	Glu	Arg	Glu	Asn	Gln	Thr	Gly	Glu	Arg	Asn	Phe	Leu	Leu	Leu	Gly
1				5				10						15	
Phe	Thr	Glu	Asp	Ser	Asp	Leu	Gln	Ser	Phe	Phe	Phe	Gly	Leu	Leu	Leu
			20					25					30		
Ser	Met	Tyr	Leu	Val	Thr	Ile	Thr	Gly	Asn	Leu	Leu	Ile	Ile	Val	Ala
			35				40					45			
Ile	Ile	Ser	Asp	Pro	His	Leu	His	Met	Pro	Met	Tyr	Leu	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Ile	Ala	Asp	Ile	Gly	Phe	Thr	Ser	Thr	Thr	Ile	Pro	Lys
65					70					75					80
Val	Leu	Gln	Asn	Ile	Arg	Thr	Gln	Ser	Lys	Phe	Ile	Ser	Phe	Ser	Gly
				85					90					95	

Cys	Ile	Thr	Gln	Ile	Phe	Phe	Phe	Ile	Val	Phe	Gly	Cys	Leu	Asp	Asn
			100					105					110		
Leu	Leu	Leu	Ser	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Val	Val	Ile	Met	Asn	Ser	Cys	Phe	Cys	Ala	Met	Leu
	130					135					140				
Ala	Leu	Gly	Ser	Trp	Ile	Val	Ser	Val	Met	Ser	Ser	Leu	Pro	Glu	Thr
145					150					155					160
Leu	Thr	Val	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asn	Met	Glu	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Glu	Val	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr
			180					185						190	
Leu	Val	Asn	Asn	Ile	Val	Thr	Tyr	Ser	Ile	Thr	Ile	Val	Ile	Ala	Gly
		195				200						205			
Phe	Pro	Phe	Ser	Gly	Ile	Leu	Leu	Ser	Tyr	Ser	Lys	Ile	Phe	Ser	Ser
	210					215					220				
Ile	Leu	Arg	Ile	Pro	Ser	Ala	Gly	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Leu	Val	Val	Phe	Leu	Phe	Tyr	Ser	Asn	Gly	Leu
				245					250					255	
Gly	Val	Tyr	Leu	Ser	Ser	Ala	Ala	Thr	Ser	Ser	Ser	Arg	Met	Ser	Leu
			260					265					270		
Val	Ala	Ser	Leu	Met	Tyr	Ser	Ile	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
		275					280					285			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Ile	Tyr	Ser	Leu	Arg	Ile	Ser
	290					295					300				
Cys	Ile	His	Thr	Asn	Met	Ile	Ile	Asn	Lys	Lys	Ser	Gln	Lys	Phe	Lys
305					310					315					320
Arg	Asp	Thr	Gly	Thr	Asn	Cys									
				325											

<210> 2501

<211> 317

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (10)...(17)

<223> Any amino acid

<400> 2501

Ser	Met	Ile	Ile	Trp	Val	Cys	Leu	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
1				5					10					15	
Xaa	Lys	Val	Gln	Leu	Pro	Leu	Phe	Leu	Leu	Phe	Val	Ala	Ile	Tyr	Leu
			20					25					30		
Ile	Thr	Val	Ala	Gly	Asn	Leu	Gly	Met	Ile	Ala	Leu	Ile	Gly	Ile	Ser
		35					40					45			
Ser	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	Ser	Leu	Ser	Phe
	50					55					60				
Ile	Asp	Phe	Cys	Gln	Ser	Thr	Val	Val	Thr	Pro	Lys	Met	Leu	Val	Ser
65					70					75				80	
Leu	Leu	Thr	Lys	Lys	Asn	Ile	Ile	Ser	Tyr	Ser	Gly	Cys	Met	Val	Gln
			85					90					95		
Leu	Tyr	Phe	Phe	Ile	Ser	Phe	Gly	Thr	Ala	Glu	Cys	Tyr	Thr	Leu	Ala
			100					105					110		

Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn	Pro	Leu	Arg	Tyr
	115						120					125			
Asn	Val	Thr	Met	Ser	Tyr	Gln	Ile	Tyr	Ser	Ser	Leu	Ile	Ser	Gly	Val
	130						135				140				
Tyr	Ile	Tyr	Ala	Val	Phe	Cys	Ala	Ser	Val	Asn	Thr	Gly	Phe	Ile	Ile
145					150					155					160
Arg	Ile	Gln	Phe	Cys	Lys	Leu	Asn	Val	Ile	Asn	His	Tyr	Phe	Cys	Asp
			165						170					175	
Leu	Leu	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asn	Thr	Tyr	Ile	Asn	Glu
			180					185					190		
Ile	Leu	Ile	Leu	Phe	Phe	Gly	Ser	Val	Asn	Ile	Cys	Val	Pro	Met	Leu
	195						200					205			
Thr	Val	Ile	Thr	Ser	Tyr	Ile	Phe	Ile	Ile	Ala	Ser	Ile	Leu	Arg	Ile
	210					215					220				
Arg	Ser	Ser	Glu	Gly	Lys	Phe	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His
225					230					235					240
Ile	Ser	Ala	Val	Ala	Ile	Leu	Tyr	Gly	Ser	Thr	Ala	Phe	Thr	Tyr	Leu
				245					250					255	
Gln	Pro	Ser	Ser	Val	Ser	Leu	Val	Asp	Gln	Gly	Lys	Val	Ser	Ser	Val
			260					265					270		
Phe	Tyr	Thr	Thr	Val	Val	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
	275						280					285			
Arg	Asn	Lys	Asp	Val	Thr	Leu	Ala	Leu	Lys	Arg	Ile	Leu	Glu	Gln	Lys
	290					295					300				
Arg	Leu	Tyr	Val	Ser	Arg	Ser	Arg	Val	Lys	Ile	Ile	Asn			
305					310					315					

<210> 2502

<211> 286

<212> PRT

<213> Mus musculus

<400> 2502

Leu	Pro	Leu	Phe	Val	Leu	Phe	Leu	Met	Asn	Tyr	Thr	Ala	Thr	Val	Met
1				5					10					15	
Gly	Asn	Leu	Ser	Leu	Met	Ser	Leu	Ile	Cys	Leu	Asn	Ser	Asn	Leu	His
			20					25					30		
Thr	Pro	Met	Tyr	Phe	Phe	Ile	Phe	Asn	Leu	Ser	Phe	Ile	Asp	Phe	Cys
		35					40					45			
Tyr	Ser	Leu	Val	Ser	Thr	Pro	Lys	Met	Leu	Met	Ser	Phe	Leu	Leu	Glu
	50					55					60				
Lys	Asn	Thr	Ile	Ser	Phe	Arg	Gly	Cys	Met	Thr	Gln	Leu	Phe	Phe	Tyr
65					70					75					80
Cys	Val	Phe	Val	Asn	Ser	Glu	Ser	Tyr	Val	Leu	Thr	Ala	Met	Ala	Tyr
				85					90					95	
Asp	Arg	Tyr	Val	Ala	Ile	Cys	Gln	Pro	Leu	Met	Tyr	Lys	Ile	Ile	Met
			100					105					110		
Ser	Pro	Lys	Ile	Cys	Cys	Leu	Leu	Ile	Phe	Gly	Ser	Phe	Leu	Met	Gly
		115					120					125			
Phe	Val	Ser	Ala	Ile	Ile	His	Thr	Gly	Cys	Met	Val	Arg	Leu	Ser	Phe
	130					135					140				
Cys	His	Ser	Lys	Ile	Ile	Asn	His	Tyr	Met	Cys	Asp	Ile	Phe	Pro	Leu
145					150					155					160
Leu	Gln	Leu	Ser	Cys	Ser	Ser	Thr	Tyr	Val	Asn	Glu	Leu	Met	Ser	Tyr
				165					170					175	
Val	Val	Val	Gly	Thr	Ser	Ile	Ile	Leu	Cys	Cys	Leu	Ile	Ile	Leu	Ile



Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Asn	Glu	Ile	Lys	Glu	Ala	Leu
290						295				300					
Lys	Arg	His	Leu	Gly	Lys	Lys	Val	Phe	Ser	Tyr	Gly	Asn	Leu	Phe	Cys
305					310					315					320
Lys	Thr	His	Tyr	Asn	His	Asn	Tyr	Pro	Val						
				325					330						

<210> 2504

<211> 317

<212> PRT

<213> Mus musculus

<400> 2504

Met	Thr	Glu	Arg	Met	Ser	Leu	Tyr	Asn	Val	Thr	Glu	Val	His	Pro	Ser
1				5				10					15		
Ser	Phe	Leu	Leu	Leu	Gly	Ile	Pro	Gly	Leu	Glu	Asn	Ala	His	Ile	Trp
			20					25					30		
Ile	Gly	Phe	Pro	Phe	Cys	Leu	Leu	Tyr	Leu	Ile	Ala	Val	Leu	Gly	Asn
		35				40						45			
Gly	Ala	Val	Leu	Phe	Val	Ile	Gln	Ala	Glu	His	Ser	Leu	His	Glu	Pro
	50					55					60				
Met	Tyr	Tyr	Phe	Leu	Ala	Met	Leu	Asp	Ser	Ile	Asp	Leu	Gly	Leu	Thr
65					70					75					80
Thr	Ala	Thr	Ile	Pro	Lys	Met	Leu	Gly	Ile	Phe	Trp	Phe	Asn	Leu	Arg
				85				90						95	
Glu	Ile	Ser	Phe	Gly	Gly	Cys	Leu	Ser	Gln	Met	Phe	Phe	Ile	His	Phe
			100					105					110		
Phe	Thr	Ala	Met	Glu	Ser	Ile	Met	Leu	Leu	Ala	Met	Gly	Phe	Asp	Arg
		115					120					125			
Tyr	Ile	Ala	Ile	Cys	Lys	Pro	Leu	Gln	Tyr	Thr	Val	Ile	Leu	Thr	Asn
	130					135					140				
Lys	Val	Ile	Gly	Val	Ile	Ala	Gly	Ile	Ala	Val	Leu	Arg	Ser	Leu	Tyr
145					150					155					160
Met	Val	Leu	Pro	Leu	Val	Phe	Leu	Leu	Leu	Arg	Leu	Pro	Tyr	Cys	Gly
			165						170					175	
His	Gln	Ser	Ile	Pro	His	Thr	Tyr	Cys	Glu	His	Met	Gly	Ile	Ala	Arg
			180					185					190		
Leu	Ala	Cys	Ala	Ser	Ile	Lys	Val	Asn	Ile	Met	Phe	Gly	Leu	Ser	Asn
		195					200					205			
Ile	Ala	Leu	Leu	Leu	Leu	Asp	Val	Val	Leu	Ile	Ile	Leu	Ser	Tyr	Val
	210					215					220				
Arg	Ile	Leu	Tyr	Ala	Val	Phe	Cys	Leu	Pro	Ser	Arg	Glu	Ala	Arg	Leu
225					230					235					240
Lys	Ala	Leu	Asn	Thr	Cys	Gly	Ser	His	Ile	Gly	Val	Ile	Leu	Thr	Phe
				245					250					255	
Phe	Thr	Pro	Ala	Phe	Phe	Ser	Phe	Leu	Thr	His	Arg	Phe	Gly	His	Asn
			260					265					270		
Val	Pro	Gln	Tyr	Ile	His	Ile	Phe	Leu	Ala	Asn	Leu	Tyr	Val	Val	Val
		275					280					285			
Pro	Pro	Ala	Leu	Asn	Pro	Val	Ile	Tyr	Gly	Val	Arg	Thr	Lys	Gln	Ile
	290					295					300				
Arg	Glu	Gln	Val	Met	Arg	Ile	Leu	Phe	Arg	Lys	Asp	His			
305					310					315					

<210> 2505

<211> 333  
 <212> PRT  
 <213> Mus musculus

<400> 2505  
 Met Thr Pro Leu Leu Tyr Phe Ala Pro Leu Arg Ala Ala Arg Gly Ser  
 1 5 10 15  
 Thr Ala Ala Thr Arg Gly Gln Asn Asp Ser Ser Val Ala Glu Phe Ile  
 20 25 30  
 Leu Leu Gly Phe Ser Ala Phe Pro Glu Leu Gln Gly Gln Met Phe Gly  
 35 40 45  
 Ala Phe Leu Val Ile Tyr Leu Val Thr Leu Met Gly Asn Ala Thr Ile  
 50 55 60  
 Val Ala Val Ile Leu Leu Asp Gln Ser Leu His Ile Pro Met Tyr Leu  
 65 70 75 80  
 Phe Leu Gln Asn Leu Ser Val Val Glu Met Ser Phe Ser Ala Ala Ile  
 85 90 95  
 Thr Pro Glu Met Leu Val Val Leu Thr Ser Glu Lys Ala Thr Ile Ser  
 100 105 110  
 Phe Gly Gly Cys Phe Ala Gln Met Tyr Phe Ile Leu Leu Phe Gly Gly  
 115 120 125  
 Thr Glu Cys Phe Leu Leu Gly Ala Met Ala Tyr Asp Arg Phe Ala Ala  
 130 135 140  
 Ile Cys His Pro Leu Ser Tyr Pro Met Ile Met Asn Lys Arg Val Phe  
 145 150 155 160  
 Val Lys Leu Val Ile Phe Ser Trp Val Ser Gly Ile Met Val Ala Thr  
 165 170 175  
 Val Gln Thr Thr Trp Val Phe Ser Phe Pro Tyr Cys Asp His Lys Glu  
 180 185 190  
 Ile Asn His Leu Phe Cys Glu Thr Pro Pro Val Leu Glu Leu Ala Cys  
 195 200 205  
 Ala Asp Thr Phe Leu Phe Glu Val Tyr Ala Phe Thr Gly Thr Ile Leu  
 210 215 220  
 Ile Val Met Val Pro Phe Leu Leu Ile Leu Leu Ser Tyr Thr Arg Ile  
 225 230 235 240  
 Leu Phe Ser Ile Leu Arg Met Pro Ser Thr Thr Gly Arg Gln Lys Ala  
 245 250 255  
 Phe Ser Thr Cys Ala Ser His Leu Thr Ser Val Thr Leu Phe Tyr Gly  
 260 265 270  
 Thr Ala Ser Ile Thr Tyr Leu Gln Pro Lys Ser Arg Tyr Ser Pro Asp  
 275 280 285  
 Thr Lys Lys Leu Met Ser Leu Ala Tyr Thr Leu Leu Thr Pro Leu Leu  
 290 295 300  
 Asn Pro Leu Ile Tyr Ser Leu Arg Asn Lys Glu Met Lys Arg Ala Val  
 305 310 315 320  
 Leu Lys Leu Trp Gln Arg Lys Val Ala Leu His Arg Gly  
 325 330

<210> 2506  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2506  
 His Ser Ser Thr Val Glu Phe Ile Leu Leu Gly Phe Ser Asn Tyr Pro  
 1 5 10 15







Ile	Ala	Leu	Val	Val	Ser	Ser	Ala	Leu	Cys	Gly	Leu	Ile	Cys	Ala	Leu
145					150					155					160
Val	Tyr	Thr	Val	Phe	Ala	Met	Asn	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Glu
				165						170					175
Ile	Asn	His	Phe	Phe	Cys	Glu	Ile	Pro	Ala	Val	Leu	Lys	Leu	Ala	Cys
			180						185					190	
Ala	Asp	Thr	Ser	Leu	Asn	Asp	Gln	Val	Asp	Phe	Ile	Leu	Gly	Phe	Ile
		195					200						205		
Leu	Leu	Leu	Ile	Pro	Leu	Ser	Leu	Ile	Leu	Ala	Ser	Tyr	Val	Arg	Ile
		210				215						220			
Phe	Ile	Ala	Ile	Leu	Arg	Ile	Arg	Ser	Thr	Gln	Gly	Arg	Met	Lys	Ala
225					230						235				240
Phe	Ser	Thr	Cys	Ala	Ser	His	Ile	Thr	Val	Val	Thr	Met	Phe	Cys	Val
				245						250					255
Pro	Cys	Met	Val	Met	Tyr	Met	Arg	Pro	Gly	Ser	Glu	Ala	Ser	Pro	Glu
			260						265					270	
Asp	Asp	Lys	Lys	Leu	Ala	Leu	Phe	Tyr	Asn	Val	Ile	Ser	Ala	Phe	Leu
		275						280					285		
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Lys	Ala	Phe
		290				295					300				
Phe	Lys	Leu	Ile	Gly	Arg	Gly	Glu	Asp	Thr	Gln					
305					310					315					

<210> 2509

<211> 314

<212> PRT

<213> Mus musculus

<400> 2509

Met	Ser	Tyr	Leu	Glu	Asn	Ser	Thr	Lys	Val	Thr	Thr	Phe	Ile	Leu	Leu
1				5					10					15	
Gly	Leu	Thr	Asp	Ile	Pro	Glu	Leu	Gln	Val	Pro	Leu	Phe	Val	Thr	Phe
			20					25					30		
Ser	Leu	Ile	Tyr	Leu	Ile	Thr	Leu	Ile	Gly	Asn	Leu	Gly	Ile	Ile	Val
		35				40						45			
Leu	Ile	Trp	Leu	Asp	Phe	Arg	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu
		50				55					60				
Ser	His	Leu	Ser	Leu	Ala	Asp	Cys	Val	Tyr	Ser	Ser	Ala	Val	Thr	Pro
65					70					75					80
Lys	Val	Met	Val	Gly	Phe	Leu	Thr	Gly	Asp	Lys	Val	Ile	Ser	Tyr	Gly
				85					90					95	
Gly	Cys	Val	Ala	Gln	Met	Phe	Phe	Phe	Val	Ala	Phe	Ala	Ser	Val	Asp
			100					105					110		
Cys	Phe	Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	His	Ala	Ala	Val	Cys
		115					120					125			
Lys	Pro	Leu	His	Tyr	Thr	Thr	Thr	Met	Thr	Thr	Ser	Val	Cys	Ala	Arg
		130				135					140				
Met	Val	Ile	Ala	Cys	Tyr	Ser	Trp	Gly	Leu	Phe	Glu	Ser	Ala	Ile	His
145					150					155					160
Thr	Gly	Phe	Thr	Phe	Ser	Leu	Pro	Tyr	Cys	Ala	Asn	Val	Val	His	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Pro	Pro	Ile	Leu	Ala	Leu	Ser	Cys	Ser	Asp	Ile
			180					185					190		
Tyr	Val	Asn	Glu	Ile	Val	Leu	Phe	Ile	Leu	Ala	Ser	Phe	Asn	Val	Phe
		195					200					205			
Phe	Ala	Leu	Ile	Val	Ile	Leu	Thr	Ser	Tyr	Ala	Phe	Ile	Phe	Ile	Ala

210		215		220
Ile Leu Arg Met His Ser	Ala Glu Gly Arg Lys	Lys Ala Phe Ser Thr		
225		230		240
Cys Ala Ser His Leu Thr	Ala Val Thr Ile Phe Tyr Gly Thr	Val Ile		
	245		250	255
Phe Met Tyr Leu Gln Pro	Ser Ser Ser His Ser Met Asp	Asn Asp Gln		
	260		265	270
Met Ala Ser Val Phe Tyr Thr	Thr Thr Ile Val Pro Met Leu	Asn Pro Val		
	275		280	285
Val Tyr Ser Leu Arg Asn	Lys Glu Val His Asn Ala Phe	Lys Lys Val		
	290		295	300
Val Glu Lys Met Asn Thr	Leu Leu Asn Ser			
305		310		

<210> 2510

<211> 312

<212> PRT

<213> Mus musculus

<400> 2510

Met Thr Leu Val Lys Asn Trp Thr Tyr Val Thr Glu Phe Ile Leu Leu		
1	5	10
Gly Leu Thr Asp Asp Pro Gly Leu Gln Leu Pro Leu Phe Val Ile Phe		
	20	25
Leu Leu Ile Tyr Ile Ile Thr Leu Val Gly Asn Leu Gly Met Ile Leu		
	35	40
Leu Ile Phe Leu Asp Ser Gln Leu His Ile Pro Met Tyr Phe Phe Leu		
	50	55
Gly Asn Leu Ser Leu Val Asp Val Cys Tyr Ser Ser Ala Val Thr Pro		
65	70	75
Lys Val Ile Ala Gly Leu Leu Ile Gly Asp Lys Phe Ile Ser Tyr Asn		
	85	90
Asp Cys Ala Ala Gln Met Phe Phe Phe Ala Ala Phe Ala Thr Val Glu		
	100	105
Asn Tyr Leu Leu Ala Ser Met Ala Tyr Asp Arg Tyr Val Ala Val Cys		
	115	120
Lys Pro Leu His Tyr Thr Thr Thr Met Thr Ser Asn Val Cys Ile Cys		
	130	135
Leu Ile Met Gly Cys Tyr Gly Phe Ser Phe Leu Asn Val Ser Val Tyr		
145	150	155
Leu Gly Asp Thr Phe Ser Leu Ser Phe Cys Asn Ser Asn Val Val His		
	165	170
His Phe Phe Cys Asp Met Pro Ala Ile Met Ala Leu Ser Cys Ser Asp		
	180	185
Lys His Val Asn Glu Leu Val Leu Ile Tyr Leu Ala Ser Phe Asn Ile		
	195	200
Phe Val Ala Phe Ile Met Ile Ile Val Ser Tyr Leu Ile Ile Phe Ile		
	210	215
Thr Ile Leu Asn Met Arg Ser Arg Ala Gly Val Gln Lys Ala Leu Ser		
225	230	235
Thr Cys Val Ser His Leu Thr Ala Val Phe Ile Phe Tyr Gly Thr Ile		
	245	250
Ile Phe Met Tyr Leu Gln Pro Ser Ser Arg His Ala Met Asp Thr Asp		
	260	265
Lys Ile Val Ser Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro		
	275	280
		285

Leu Val Tyr Ser Leu Arg Asn Lys Glu Val Lys Ser Ala Phe Met Lys  
 290 295 300  
 Ile Val Leu Lys Glu Lys Ser Leu  
 305 310

<210> 2511  
 <211> 314  
 <212> PRT  
 <213> Mus musculus

<400> 2511  
 Met Glu Asn Ile Ser Glu Val Thr Glu Phe Ile Leu Met Gly Ile Thr  
 1 5 10 15  
 Asp Ala Pro Glu Leu Gln Ile Pro Leu Phe Ile Ile Phe Thr Leu Ile  
 20 25 30  
 Tyr Leu Ile Ala Leu Phe Gly Asn Leu Gly Met Ile Met Leu Ile Leu  
 35 40 45  
 Leu Asp Ser Arg Leu His Ser Pro Met Tyr Phe Phe Leu Cys Asn Leu  
 50 55 60  
 Ser Leu Val Asp Cys Val Tyr Ala Ser Ala Val Thr Pro Lys Val Met  
 65 70 75 80  
 Glu Gly Phe Leu Thr Gly Asn Lys Ile Ile Ser Tyr Asn Ala Cys Ala  
 85 90 95  
 Ala Gln Met Phe Phe Phe Val Ala Phe Gly Ala Ile Glu Ser Leu Ile  
 100 105 110  
 Leu Ala Ser Met Ala Tyr Asp Arg His Ala Ala Val Cys Lys Pro Leu  
 115 120 125  
 His Tyr Thr Thr Ile Met Thr Ser Thr Thr Cys Ile Leu Ile Val Thr  
 130 135 140  
 Cys Cys Tyr Met Cys Gly Ile Leu Gln Ser Ser Ile His Val Ala Leu  
 145 150 155 160  
 Ala Phe Cys Leu Ser Phe Cys Asn Ser Asn Val Ile Asn His Phe Phe  
 165 170 175  
 Cys Asp Ile Pro Pro Leu Leu Asp Ile Ser Cys Ser Asp Thr Tyr Thr  
 180 185 190  
 Asn Glu Ile Thr Val Leu Ile Leu Gly Thr Cys Asp Gly Ile Leu Thr  
 195 200 205  
 Leu Leu Val Ile Leu Asn Thr Tyr Leu Leu Ile Phe Ile Ala Ile Leu  
 210 215 220  
 Arg Met Arg Ser Ala Glu Ala Gln Arg Lys Ala Phe Ser Thr Cys Ala  
 225 230 235 240  
 Ser His Leu Ile Thr Val Phe Ile Phe Phe Gly Ser Thr Leu Phe Met  
 245 250 255  
 Tyr Leu Gln Pro Ser Ser Asn His Ser Met Asp Thr Asp Lys Ile Ala  
 260 265 270  
 Ser Val Phe Tyr Thr Met Val Ile Pro Met Leu Asn Pro Val Val Tyr  
 275 280 285  
 Ser Leu Arg Asn Lys Glu Val Lys Asn Ala Phe Lys Lys Val Val Gly  
 290 295 300  
 Lys Leu Met Thr Ser Leu Gln Leu Val Asn  
 305 310

<210> 2512  
 <211> 322  
 <212> PRT

<213> Mus musculus

<400> 2512

```
Met Gly Asp Lys Glu Arg Asp Asn His Ser Glu Val Thr Asp Phe Ile
 1          5          10          15
His His Ser Glu Val Thr Asp Phe Ile Leu Val Gly Ile Arg Val Arg
          20          25          30
Pro Glu Leu His Ser Val Leu Phe Leu Leu Phe Leu Ile Ile Tyr Gly
          35          40          45
Met Val Leu Leu Gly Asn Leu Ser Met Ile Gly Ile Ile Val Thr Asp
          50          55          60
Pro Arg Leu Asn Thr Pro Met Tyr Phe Phe Leu Gly Asn Leu Ser Val
65          70          75          80
Ile Asp Leu Ser Tyr Ser Thr Val Ile Val Pro Lys Ala Met Val Asn
          85          90          95
Ile Leu Ser Gln Lys Lys Thr Ile Ser Phe Val Gly Cys Ala Ala Gln
          100          105          110
Leu Phe Leu Tyr Ala Leu Phe Met Val Thr Glu Ala Phe Ile Leu Ala
          115          120          125
Ala Met Ala Tyr Asp Arg Phe Ile Ala Ile Cys Asn Pro Leu Leu Tyr
          130          135          140
Ser Val Arg Met Ser Arg Ser Val Cys Val Gln Leu Val Ala Gly Ser
145          150          155          160
Tyr Leu Cys Gly Trp Val Ser Ser Ile Leu Gln Ile Ser Val Thr Phe
          165          170          175
Ser Met Ser Phe Cys Ala Ser Arg Val Ile Asp His Phe Tyr Cys Asp
          180          185          190
Ser Asn Pro Ile Glu Lys Ile Ser Cys Ser Asn Thr Phe Ile Asn Lys
          195          200          205
Met Val Ser Leu Ser Leu Ala Val Leu Ile Ile Leu Pro Thr Ile Ile
          210          215          220
Val Ile Val Val Ser Tyr Met Tyr Ile Val Ser Thr Val Leu Lys Ile
225          230          235          240
His Ser Ser Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys Ser Ser His
          245          250          255
Leu Gly Val Val Ser Leu Leu Tyr Gly Thr Val Ser Phe Val Tyr Leu
          260          265          270
Thr Pro Pro Asn Asn Pro Glu Leu Arg Lys Ile Ala Ser Val Cys Tyr
          275          280          285
Ile Leu Phe Thr Pro Met Leu Asn Pro Leu Ile Tyr Ser Leu Arg Asn
          290          295          300
Lys Asp Val Lys Asp Ala Met Lys Lys Val Leu Cys Lys Gln Lys Val
305          310          315          320
Leu Leu
```

<210> 2513

<211> 328

<212> PRT

<213> Mus musculus

<400> 2513

```
Met Ile Thr His Phe Ser Val Val Ser Val Phe Leu Thr Ala Phe Gly
 1          5          10          15
Ser Lys Asn Ser Ser Ile His Phe Val Thr Glu Phe Ile Leu Leu Gly
          20          25          30
```

Phe	Ser	Asn	Gln	Gly	Glu	Met	Gln	Ser	Phe	Phe	Phe	Cys	Ser	Ile	Leu
		35					40					45			
Ile	Leu	Tyr	Leu	Leu	Thr	Leu	Leu	Gly	Asn	Gly	Thr	Ile	Val	Cys	Ala
	50					55					60				
Val	Arg	Trp	Asp	Gln	Arg	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Gly
65				70						75					80
Asn	Phe	Ala	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Ser	Ser	Thr	Ile	Pro	Asn
			85						90					95	
Met	Leu	Val	Asn	Ile	Leu	Ser	Glu	Asn	Lys	Thr	Ile	Ser	Phe	Ser	Ala
			100					105					110		
Cys	Phe	Leu	Gln	Phe	Tyr	Phe	Phe	Phe	Ser	Leu	Gly	Thr	Thr	Glu	Cys
		115					120					125			
Phe	Phe	Leu	Ser	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Arg
	130					135					140				
Pro	Leu	His	Tyr	Pro	Ser	Ile	Met	Thr	Arg	Lys	Phe	Cys	Val	Ile	Leu
145					150					155					160
Ile	Cys	Ile	Cys	Trp	Val	Ser	Gly	Phe	Leu	Cys	Tyr	Pro	Val	Pro	Ile
			165						170					175	
Val	Leu	Ile	Ser	Gln	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asp	His
			180					185					190		
Phe	Val	Cys	Asp	Pro	Gly	Pro	Leu	Phe	Ala	Leu	Ser	Cys	Val	Pro	Ala
	195						200					205			
Pro	Ser	Thr	Glu	Leu	Leu	Cys	Tyr	Thr	Phe	Asn	Ser	Met	Ile	Ile	Phe
	210					215					220				
Gly	Pro	Phe	Phe	Cys	Ile	Leu	Gly	Ser	Tyr	Thr	Leu	Val	Leu	Arg	Ala
225					230					235					240
Val	Phe	Arg	Val	Pro	Ser	Gly	Ala	Gly	Arg	Thr	Lys	Ala	Phe	Ser	Thr
			245						250					255	
Cys	Gly	Ser	His	Leu	Val	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Leu	Met
			260					265					270		
Val	Met	Tyr	Val	Ser	Pro	Thr	Ser	Gly	Asn	Pro	Ala	Gly	Met	Gln	Lys
		275					280					285			
Ile	Val	Thr	Leu	Ile	Tyr	Ser	Ala	Leu	Thr	Pro	Leu	Leu	Asn	Pro	Leu
	290					295					300				
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Met	Lys	Asn	Ala	Leu	Lys	Lys	Leu
305					310					315					320
Leu	Lys	Leu	Thr	Ile	Ile	Gln	Asn								
				325											

<210> 2514

<211> 314

<212> PRT

<213> Mus musculus

<400> 2514

Met	Asn	Val	Ser	Glu	Gly	Ser	Thr	Val	Thr	Tyr	Phe	Val	Leu	Leu	Gly
1				5				10					15		
Phe	Pro	Gly	Pro	Trp	Lys	Ile	Gln	Ile	Thr	Leu	Phe	Ser	Leu	Ile	Leu
		20					25					30			
Leu	Leu	Tyr	Met	Ile	Thr	Leu	Thr	Gly	Asn	Met	Ala	Ile	Ile	Cys	Ala
		35				40					45				
Val	Arg	Trp	Asn	Gln	Gln	Leu	His	Thr	Pro	Met	Tyr	Met	Phe	Leu	Ala
	50					55				60					
Asn	Phe	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Thr	Cys	Thr	Val	Pro	Asn
65					70					75				80	
Met	Leu	Ile	Asn	Ser	Leu	Ser	Lys	Thr	Lys	Thr	Ile	Ser	Phe	Thr	Gly

				85					90					95			
Cys	Phe	Thr	Gln	Phe	Tyr	Phe	Phe	Phe	Ser	Leu	Gly	Thr	Thr	Glu	Cys		
			100					105					110				
Phe	Phe	Leu	Cys	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Leu	Ala	Ile	Cys	Tyr		
		115					120					125					
Pro	Leu	His	Tyr	Pro	Ser	Ile	Met	Thr	Arg	Gln	Phe	Cys	Ser	Ile	Leu		
	130					135					140						
Met	Ser	Leu	Cys	Trp	Ile	Ile	Gly	Phe	Ser	Ala	His	Leu	Ile	Pro	Ile		
145					150					155					160		
Phe	Leu	Ile	Ser	Gln	Leu	Ser	Phe	Cys	Gly	Pro	Asn	Ile	Ile	Asp	His		
				165					170					175			
Phe	Leu	Cys	Asp	Val	Asp	Pro	Leu	Ile	Ala	Leu	Ser	Cys	Thr	Pro	Thr		
			180					185					190				
His	Ile	Ile	Ser	His	Val	Phe	Tyr	Ser	Ile	Ser	Thr	Leu	Ile	Ile	Ile		
	195					200						205					
Leu	Thr	Gly	Leu	Tyr	Ile	Leu	Gly	Ser	Tyr	Ala	Leu	Val	Leu	Arg	Ala		
	210					215					220						
Val	Leu	Gln	Val	Pro	Ser	Ser	Asp	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr		
225					230					235					240		
Cys	Gly	Ser	His	Leu	Leu	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Met		
			245						250					255			
Val	Met	Tyr	Val	Ser	Pro	Thr	Ser	Gly	Asn	Ser	Val	Asp	Met	Asn	Lys		
			260					265					270				
Ile	Ile	Thr	Leu	Ile	Tyr	Ser	Val	Val	Thr	Pro	Ala	Leu	Asn	Pro	Phe		
	275					280						285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Tyr	Ala	Leu	His	His	Val		
	290				295						300						
Phe	Phe	Gly	Asn	Ser	Ile	Met	Gln	Asn	Leu								
305					310												

<210> 2515

<211> 314

<212> PRT

<213> Mus musculus

<400> 2515

Lys	Asn	Lys	Asn	Ser	Ser	Asp	Val	Ser	Arg	Phe	Val	Leu	Leu	Gly	Leu		
1				5					10					15			
Ser	Ser	Ser	Trp	Glu	Leu	Gln	Leu	Phe	Leu	Phe	Phe	Thr	Phe	Leu	Leu		
			20					25					30				
Ile	Tyr	Leu	Val	Ile	Val	Leu	Gly	Asn	Leu	Leu	Ile	Val	Met	Val	Val		
	35					40						45					
Gln	Ala	Asp	Ala	His	Leu	Phe	Gln	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Ser		
	50					55					60						
His	Leu	Ser	Phe	Ile	Asp	Leu	Cys	Leu	Ser	Cys	Val	Ala	Val	Pro	Lys		
65				70						75				80			
Met	Leu	Gly	Asp	Phe	Leu	Gln	Lys	Glu	Lys	Thr	Ile	Ser	Phe	Ser	Gly		
			85						90					95			
Cys	Leu	Ala	Gln	Val	Phe	Phe	Leu	His	Phe	Leu	Gly	Ala	Ser	Glu	Met		
		100						105				110					
Phe	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn		
	115					120						125					
Pro	Leu	His	Tyr	Leu	Thr	Val	Met	Asn	Asn	His	Leu	Arg	Leu	Arg	Leu		
	130					135					140						
Val	Phe	Gly	Cys	Trp	Cys	Gly	Gly	Phe	Ile	His	Ser	Ile	Thr	Gln	Val		
145					150					155					160		





225		230		235		240									
Leu	Lys	Leu	Pro	Ser	Lys	Thr	Gly	Arg	Thr	Lys	Ala	Phe	Ser	Thr	Cys
		245		250		255									
Ser	Ser	His	Leu	Ile	Val	Val	Phe	Leu	Phe	Tyr	Gly	Ser	Ala	Ser	Ile
		260		265		270									
Thr	Tyr	Leu	Lys	Pro	Lys	Ser	Asn	Lys	Phe	Glu	Gly	Thr	Asp	Lys	Leu
		275		280		285									
Leu	Ser	Leu	Phe	Tyr	Thr	Ile	Leu	Thr	Pro	Met	Phe	Asn	Pro	Leu	Ile
		290		295		300									
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Thr	Gly	Ala	Leu	Lys	Lys	Leu	Phe
305				310		315									320
Thr	Arg	Leu	Leu	Ala	Leu										
				325											

<210> 2517  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2517
Met Gly Ala Asn Gln Thr Trp Val Thr Asp Phe Ile Leu Val Gly Leu
1 5 10 15
Gln Leu Ser Ala Gly Ile Glu Met Phe Leu Phe Trp Ile Phe Ser Leu
20 25 30
Leu Tyr Ile Phe Ser Leu Leu Ala Asn Gly Ile Ile Leu Val Val Ile
35 40 45
Cys Leu Asp Pro Lys Leu His Thr Pro Met Tyr Phe Phe Leu Ser His
50 55 60
Leu Ala Ile Leu Asp Ile Ser Tyr Ala Ser Asn Asn Val Pro Lys Met
65 70 75 80
Leu Ser Asn Leu Ile Asn Gln Lys Arg Thr Ile Ser Phe Ala Pro Cys
85 90 95
Ile Thr Gln Thr Phe Leu Tyr Leu Ala Phe Ala Ala Ser Glu Cys Leu
100 105 110
Ile Leu Ala Ala Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro
115 120 125
Leu His Tyr Thr Val Ile Met Ser Trp Lys Val Cys Val Ala Leu Ala
130 135 140
Val Thr Ser Trp Ser Cys Gly Phe Ser Leu Ser Val Ala His Thr Ile
145 150 155 160
Leu Leu Leu Arg Leu Pro Phe Cys Gly Pro Gln Glu Ile Asn His Leu
165 170 175
Phe Cys Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Ala Asp Thr Leu
180 185 190
Ile Asn Gln Ile Val Ile Leu Ala Cys Val Phe Val Leu Val Gly
195 200 205
Pro Leu Cys Ser Met Leu Val Ser Tyr Thr His Ile Leu Trp Thr Ile
210 215 220
Leu Lys Met Gln Ser Lys Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys
225 230 235 240
Ser Ser His Leu Cys Val Val Gly Leu Phe Phe Gly Ile Ala Met Leu
245 250 255
Val Tyr Met Val Pro Asp Ser Asp Gln Arg Glu Glu Gln Glu Lys Ile
260 265 270
Leu Ser Leu Phe His Ser Leu Phe Asn Pro Met Leu Asn Pro Leu Ile
275 280 285

Tyr Ser Leu Arg Asn Thr Gln Val Lys Glu Ala Phe His Arg Ala Leu  
 290 295 300  
 Gln Lys Lys Arg Ser Val  
 305 310

<210> 2518  
 <211> 308  
 <212> PRT  
 <213> Mus musculus

<400> 2518  
 Met Asn Gln Thr Trp Ile Thr Glu Val Ile Leu Leu Gly Phe Gln Val  
 1 5 10 15  
 Asp Pro Ser Leu Glu Met Leu Leu Phe Gly Leu Phe Leu Leu Phe Tyr  
 20 25 30  
 Cys Leu Thr Leu Met Gly Asn Gly Ile Ile Leu Gly Leu Ile Cys Leu  
 35 40 45  
 Asp Ala Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser His Leu Ala  
 50 55 60  
 Ile Val Asp Met Ser Tyr Ala Ser Ser Thr Ala Pro Lys Met Leu Thr  
 65 70 75 80  
 Asn Met Val Met His Gln Lys Ser Ile Ser Phe Ala Ser Cys Ile Leu  
 85 90 95  
 Gln Thr Phe Leu Tyr Leu Ala Phe Ala Val Thr Glu Cys Leu Ile Leu  
 100 105 110  
 Val Val Met Ser Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu Lys  
 115 120 125  
 Tyr Thr Leu Ile Met Ser Trp Arg Val Cys Ser Ile Leu Ala Ala Thr  
 130 135 140  
 Cys Trp Val Phe Ser Phe Leu Leu Ala Ser Leu His Ile Thr Leu Ile  
 145 150 155 160  
 Leu Arg Leu Pro Phe Cys Gly Pro Gln Lys Val Asn His Phe Phe Cys  
 165 170 175  
 Gln Ile Met Ser Val Phe Arg Leu Ala Cys Ala Asp Thr Arg Leu Asn  
 180 185 190  
 Gln Val Val Leu Phe Ala Gly Ser Val Met Val Leu Leu Gly Pro Leu  
 195 200 205  
 Cys Leu Val Leu Val Ser Tyr Thr Arg Ile Leu Val Ala Ile Leu Gly  
 210 215 220  
 Ile His Ser Gly Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ser Ser  
 225 230 235 240  
 His Leu Cys Val Val Gly Leu Phe Phe Gly Cys Ala Ile Ala Met Tyr  
 245 250 255  
 Met Ala Pro Lys Ser Lys His Ser Gln Glu Gln Arg Lys Ile Leu Ser  
 260 265 270  
 Leu Phe Tyr Ser Leu Phe Asn Pro Met Leu Asn Pro Leu Ile Tyr Ser  
 275 280 285  
 Leu Arg Asn Thr Glu Val Lys Gly Ala Leu Arg Arg Val Leu Trp Lys  
 290 295 300  
 Gln Arg Ser Leu  
 305

<210> 2519  
 <211> 316  
 <212> PRT

<213> Mus musculus

<400> 2519

Met	Ala	Tyr	Glu	Val	Val	Asn	Gln	Ser	Ser	Ala	Thr	Thr	Phe	Ile	Leu
1				5					10					15	
Val	Gly	Phe	Ser	Glu	Tyr	Pro	Gln	Leu	Gln	Ile	Pro	Leu	Phe	Leu	Leu
			20					25					30		
Phe	Leu	Thr	Ile	Tyr	Ser	Val	Thr	Leu	Met	Gly	Asn	Leu	Gly	Ile	Leu
		35					40				45				
Val	Val	Ile	Lys	Val	Asn	Pro	Lys	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe
	50					55					60				
Leu	Ser	His	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Ser	Ser	Val	Phe	Thr
65					70					75				80	
Pro	Lys	Leu	Leu	Gln	Ile	Leu	Ile	Met	Glu	Asp	Arg	Thr	Ile	Ser	Phe
				85					90					95	
Ile	Gly	Cys	Met	Ile	Gln	Phe	Phe	Phe	Ile	Cys	Thr	Phe	Val	Ile	Thr
			100					105					110		
Glu	Met	Phe	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Val
		115					120					125			
Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Val	Met	Pro	Ile	Gln	Phe	Cys	Ala
	130					135				140					
Leu	Leu	Val	Ala	Gly	Thr	Tyr	Met	Ile	Gly	Gly	Leu	Cys	Thr	Leu	Ile
145					150					155				160	
Ile	Leu	Tyr	Thr	Leu	Leu	Gln	Leu	Cys	Tyr	Phe	Glu	Tyr	Gly	Ile	Ile
				165					170					175	
Asn	His	Phe	Gly	Cys	Glu	Tyr	Ser	Ala	Val	Ile	Ser	Val	Ser	Cys	Ser
		180						185					190		
Asp	Ser	Ser	Phe	Ser	Gln	Leu	Ile	Cys	Leu	Val	Ile	Ser	Ile	Ala	Ser
		195					200					205			
Glu	Phe	Ser	Ser	Val	Leu	Ile	Thr	Leu	Ala	Ser	Tyr	Val	Phe	Ile	Val
	210					215					220				
Val	Thr	Ile	Ile	Lys	Met	Pro	Ser	Lys	Gly	Gly	Leu	Gln	Lys	Ala	Phe
225				230						235				240	
Ser	Thr	Cys	Thr	Ser	His	Leu	Thr	Ala	Ile	Thr	Ile	Phe	His	Gly	Ile
				245					250					255	
Leu	Leu	Leu	Leu	Tyr	Cys	Ile	Pro	Asn	Ser	Asn	Ser	Ser	Arg	Leu	Phe
			260					265					270		
Val	Lys	Val	Ala	Thr	Ala	Leu	Tyr	Thr	Ile	Met	Ile	Pro	Met	Leu	Asn
	275					280						285			
Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Asp	Thr	Val	Arg
	290					295					300				
Arg	Leu	Ile	Ser	Ser	Lys	Leu	His	Ser	His	Leu	Thr				
305					310					315					

<210> 2520

<211> 314

<212> PRT

<213> Mus musculus

<400> 2520

Met	Gln	Arg	Arg	Met	Glu	Gly	Glu	Asn	Cys	Ser	Ser	Phe	Thr	Glu	Phe
1				5					10					15	
Ile	Leu	Met	Gly	Ile	Thr	Asn	Asn	Ser	Glu	Val	Lys	Val	Val	Leu	Phe
			20					25					30		
Thr	Ile	Phe	Leu	Leu	Val	Tyr	Leu	Ile	Asn	Leu	Ile	Gly	Asn	Leu	Gly
		35					40					45			

Met	Ile	Leu	Leu	Ile	Lys	Val	Asp	Pro	Gln	Leu	Gln	Thr	Pro	Met	Tyr	
50						55					60					
Phe	Phe	Leu	Ser	Asn	Leu	Ser	Phe	Cys	Asp	Leu	Cys	Tyr	Ser	Thr	Ala	
65				70					75						80	
Val	Gly	Pro	Lys	Met	Leu	Met	Asp	Ile	Phe	Gly	Asn	Asp	Lys	Ser	Ile	
			85						90					95		
Gln	Phe	Phe	Gly	Cys	Ala	Leu	Gln	Phe	Ile	Ser	Cys	Thr	Phe	Val		
			100					105					110			
Asp	Ser	Glu	Cys	Ile	Leu	Leu	Ala	Val	Met	Ala	Phe	Asp	Arg	Tyr	Gln	
		115					120					125				
Ala	Ile	Ser	Asn	Pro	Leu	Leu	Tyr	Thr	Thr	Asn	Met	Ser	Asn	Arg	Leu	
	130					135					140					
Cys	Ser	Leu	Leu	Val	Ala	Gly	Val	Tyr	Phe	Val	Gly	Val	Ala	Asp	Ser	
145				150						155				160		
Leu	Ile	His	Thr	Thr	Leu	Thr	Phe	His	Leu	Cys	Phe	Cys	Gly	Ser	Asn	
			165					170						175		
Glu	Ile	Asp	His	Phe	Phe	Cys	Asp	Ile	Pro	Pro	Ile	Leu	Leu	Leu	Ser	
		180					185						190			
Cys	Ser	Asp	Thr	Gln	Val	Asn	Glu	Leu	Ala	Ile	Phe	Thr	Ile	Phe	Gly	
		195				200						205				
Phe	Ile	Glu	Leu	Ser	Thr	Ile	Ser	Gly	Val	Leu	Val	Ser	Tyr	Cys	Tyr	
	210					215					220					
Ile	Ile	Ser	Ser	Val	Leu	Lys	Ile	Ser	Ser	Ala	Gly	Gly	Arg	Phe	Lys	
225				230						235				240		
Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Val	Ala	Ile	Phe	Gln	
			245					250						255		
Gly	Thr	Val	Leu	Phe	Met	Tyr	Phe	Arg	Pro	Ser	Ser	Ser	Tyr	Ser	Leu	
		260					265						270			
Asp	Gln	Asp	Lys	Met	Ser	Ser	Leu	Phe	Tyr	Ile	Leu	Val	Ile	Pro	Met	
		275				280						285				
Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ala	
	290					295					300					
Leu	Lys	Asn	Leu	Lys	Asn	Lys	Arg	Cys	Cys							
305					310											

<210> 2521  
 <211> 332  
 <212> PRT  
 <213> Mus musculus

<400> 2521																
Met	Leu	Pro	Phe	Asn	Asp	Glu	Asp	Glu	Phe	Ser	Leu	Phe	Arg	Tyr	Ser	
1				5					10					15		
Arg	Thr	Met	His	Gln	Gly	Asn	Gln	Thr	Ala	Ile	Ser	Gly	Phe	Ile	Leu	
			20					25					30			
Leu	Gly	Leu	Thr	Val	Gly	Ser	Glu	Gln	Gln	Leu	Leu	Leu	Phe	Thr	Leu	
		35					40					45				
Phe	Leu	Cys	Met	Tyr	Leu	Val	Thr	Met	Val	Gly	Asn	Ser	Leu	Ile	Ile	
	50					55					60					
Leu	Ala	Ile	Ile	Ser	Asp	Thr	His	Leu	Tyr	Ser	Pro	Met	Tyr	Phe	Phe	
65				70					75					80		
Leu	Ala	Asn	Leu	Ser	Phe	Thr	Asp	Ile	Cys	Phe	Thr	Thr	Thr	Thr	Val	
			85					90					95			
Pro	Lys	Ile	Leu	Ala	Asp	Ile	Gln	Ser	Gln	Asn	Pro	Thr	Ile	Ser	Phe	
			100					105					110			
Val	Gly	Cys	Phe	Thr	Gln	Met	Tyr	Phe	Phe	Met	Phe	Leu	Val	Asp	Leu	



Phe	Cys	Asp	Ile	Pro	Pro	Leu	Leu	Ala	Leu	Ser	Cys	Ser	Ser	Ile	His
			180					185					190		
Ile	Asn	Glu	Ile	Ile	Leu	Phe	Met	Leu	Ala	Gly	Phe	Asn	Val	Val	Phe
		195					200					205			
Ser	Leu	Leu	Val	Ile	Leu	Thr	Ser	Tyr	Leu	Leu	Ile	Ser	Val	Ala	Ile
	210					215					220				
Val	Arg	Met	Arg	Ser	Ala	Glu	Ser	Arg	Lys	Lys	Ala	Ile	Ser	Thr	Cys
225					230					235					240
Ala	Ser	His	Leu	Thr	Thr	Val	Ser	Ile	Phe	Tyr	Gly	Thr	Ile	Ile	Phe
			245						250					255	
Met	Tyr	Leu	Gln	Pro	Ser	Ser	Asn	His	Ser	Met	Asp	Thr	Asp	Lys	Met
			260					265					270		
Ala	Ser	Val	Phe	Tyr	Thr	Met	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	Val
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Asn	Ala	Val	Arg	Lys	Val	Ala
	290					295					300				
Gly	Lys	Ala	Leu	Phe	Ser	Leu	Gly	Leu	Val	Asn					
305					310					315					

<210> 2523

<211> 320

<212> PRT

<213> Mus musculus

<400> 2523

Met	Asn	Val	Ser	Phe	Lys	Thr	Gly	Phe	Leu	Leu	Met	Gly	Phe	Ser	Asp
1				5				10						15	
Glu	Arg	Asn	Leu	Gln	Ile	Leu	His	Ala	Val	Leu	Phe	Leu	Ile	Thr	Tyr
			20					25					30		
Leu	Leu	Ala	Ile	Met	Gly	Asn	Leu	Leu	Ile	Ile	Thr	Ile	Ile	Thr	Leu
		35				40						45			
Asp	Gln	Arg	Leu	His	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Lys	His	Leu	Ser
	50					55					60				
Phe	Leu	Asp	Leu	Cys	Phe	Ile	Ser	Val	Thr	Val	Pro	Gln	Ser	Ile	Ala
65					70					75					80
Asn	Ser	Leu	Met	Asn	Asn	Gly	Phe	Ile	Ser	Leu	Gly	Gln	Cys	Met	Leu
			85					90					95		
Gln	Val	Phe	Phe	Phe	Ile	Ala	Leu	Ala	Ser	Ser	Glu	Val	Ala	Ile	Leu
		100						105					110		
Thr	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu	Gln
	115						120					125			
Tyr	Glu	Thr	Ile	Met	Asp	Pro	His	Ala	Cys	Lys	Cys	Ala	Val	Ile	Ala
	130					135					140				
Val	Trp	Met	Ala	Gly	Gly	Leu	Ser	Gly	Leu	Leu	His	Thr	Gly	Val	Asn
145					150				155						160
Phe	Ser	Ile	Pro	Leu	Cys	Gly	Lys	Arg	Ile	Ile	His	Gln	Phe	Phe	Cys
			165						170					175	
Asp	Ile	Pro	Gln	Met	Leu	Lys	Leu	Ala	Cys	Ser	Tyr	Glu	Phe	Ile	Asn
		180						185					190		
Glu	Ile	Ala	Val	Ala	Ala	Phe	Thr	Thr	Ser	Thr	Ala	Phe	Val	Cys	Leu
		195					200					205			
Ile	Ala	Ile	Val	Phe	Ser	Tyr	Thr	Gln	Ile	Phe	Ser	Thr	Val	Met	Arg
	210					215					220				
Ile	Pro	Ser	Ala	Asp	Ser	Arg	Thr	Lys	Val	Phe	Ser	Thr	Cys	Leu	Pro
225					230					235					240
His	Leu	Phe	Val	Val	Met	Phe	Phe	Leu	Ser	Ala	Ala	Gly	Phe	Glu	Phe





<210> 2525  
 <211> 330  
 <212> PRT  
 <213> Mus musculus

<400> 2525  
 Met Ile Cys Cys Pro Phe Phe Gln Glu Met Ser Ile Asn Cys Ser Leu  
 1 5 10 15  
 Trp Gln Glu Asn Ser Leu Ser Val Lys Arg Phe Ala Phe Ala Lys Phe  
 20 25 30  
 Ser Glu Val Pro Gly Glu Cys Phe Leu Leu Phe Thr Leu Ile Leu Leu  
 35 40 45  
 Met Phe Leu Val Ser Leu Thr Gly Asn Ser Leu Ile Ala Leu Ala Ile  
 50 55 60  
 Cys Thr Ser Ala Ala Leu His Thr Pro Met Tyr Phe Phe Leu Ala Asn  
 65 70 75 80  
 Leu Ser Leu Leu Glu Ile Gly Tyr Thr Cys Ser Val Ile Pro Lys Met  
 85 90 95  
 Leu Gln Ser Leu Val Ser Glu Ala Arg Gly Ile Ser Arg Glu Gly Cys  
 100 105 110  
 Ala Thr Gln Met Phe Phe Phe Ile Phe Phe Gly Ile Thr Glu Cys Cys  
 115 120 125  
 Leu Leu Ala Ala Met Ala Phe Asp Arg Tyr Met Ala Ile Cys Ser Pro  
 130 135 140  
 Leu His Tyr Ala Thr Arg Met Ser Arg Gly Val Cys Ala His Leu Ala  
 145 150 155 160  
 Ile Val Ser Trp Gly Met Gly Cys Ile Val Gly Leu Gly Gln Thr Asn  
 165 170 175  
 Phe Ile Phe Ser Leu Asn Phe Cys Gly Pro Cys Glu Ile Asp His Phe  
 180 185 190  
 Phe Cys Asp Leu Pro Pro Val Leu Ala Leu Ala Cys Gly Asp Thr Ser  
 195 200 205  
 Gln Asn Glu Ala Ala Ile Phe Val Ala Ala Val Leu Cys Ile Phe Ser  
 210 215 220  
 Pro Phe Leu Leu Ile Ile Ser Ser Tyr Val Arg Ile Leu Ile Ala Val  
 225 230 235 240  
 Leu Val Met Pro Ser Arg Glu Gly Arg His Lys Ala Leu Ser Thr Cys  
 245 250 255  
 Ser Ser His Leu Leu Val Val Thr Leu Phe Tyr Gly Ser Thr Ser Ala  
 260 265 270  
 Thr Tyr Leu Arg Pro Lys Ser Asp His Ser Pro Glu Val Asp Lys Leu  
 275 280 285  
 Leu Ala Leu Phe Tyr Thr Ala Val Thr Ser Met Leu Asn Pro Ile Ile  
 290 295 300  
 Tyr Ser Leu Arg Asn Lys Glu Val Lys Ala Ala Leu Arg Lys Thr Leu  
 305 310 315 320  
 Ser Leu Lys Lys Val Leu Ile Met Asn Arg  
 325 330

<210> 2526  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2526

Met	Ile	Met	Glu	Asn	Ile	Thr	Thr	Met	Ser	Gly	Phe	Leu	Leu	Met	Gly
1				5				10						15	
Phe	Ser	Asp	Asn	His	Glu	Leu	Gln	Ile	Leu	Gln	Ala	Val	Leu	Phe	Leu
			20					25					30		
Val	Thr	Tyr	Leu	Val	Gly	Ser	Ala	Gly	Asn	Val	Ile	Ile	Ile	Thr	Ile
		35					40					45			
Thr	Thr	Leu	Asp	Pro	Gln	Leu	Gln	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Lys
	50					55					60				
Gln	Leu	Ser	Ile	Leu	Asp	Leu	Ser	Ser	Leu	Ser	Val	Thr	Val	Pro	Gln
65					70					75					80
Tyr	Val	Asp	Ser	Ser	Leu	Ala	Arg	Ser	Gly	Tyr	Ile	Ser	Tyr	Gly	Gln
				85					90					95	
Cys	Met	Leu	Gln	Ile	Phe	Phe	Phe	Thr	Trp	Phe	Ala	Trp	Gly	Glu	Met
			100					105					110		
Ala	Ile	Leu	Thr	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Ile	Ala	Val	Cys	Leu
		115					120					125			
Pro	Leu	His	Tyr	Glu	Ile	Ile	Met	Cys	Pro	Arg	Lys	Cys	Arg	Trp	Ala
	130					135					140				
Val	Thr	Ala	Val	Trp	Leu	Ser	Ser	Ser	Ile	Pro	Gly	Thr	Leu	Tyr	Leu
145					150					155					160
Ala	Thr	Ile	Phe	Ser	Ile	Arg	Ile	Cys	Arg	Ala	Lys	Ile	Ile	His	Gln
			165						170					175	
Phe	Phe	Cys	Asp	Val	Pro	Gln	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asn	Asp
			180					185					190		
Tyr	Leu	Val	Ile	Met	Gly	Val	Ala	Asp	Phe	Leu	Ser	Val	Ile	Gly	Phe
	195						200					205			
Ala	Cys	Phe	Val	Gly	Ile	Val	Ile	Ser	Tyr	Val	His	Ile	Phe	Ser	Thr
	210					215					220				
Val	Leu	Arg	Met	Pro	Ser	Ala	Glu	Ser	Arg	Ser	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Leu	Pro	His	Leu	Phe	Val	Val	Ser	Leu	Phe	Leu	Ser	Thr	Gly	Ile
				245					250					255	
Phe	Ala	Tyr	Leu	Asn	Pro	Thr	Ser	Asp	Phe	Pro	Thr	Ala	Leu	Glu	Phe
			260					265					270		
Leu	Phe	Ser	Val	Phe	Tyr	Thr	Val	Leu	Pro	Pro	Thr	Leu	Asn	Pro	Val
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Asp	Ala	Ile	Lys	Ser	Val	Val	Arg	Lys	Leu
	290				295						300				
Leu	Leu	Ser	Arg	Lys	Phe	Thr	Ser								
305					310										

<210> 2527

<211> 315

<212> PRT

<213> Mus musculus

<400> 2527

Met	Ile	Met	Glu	Asn	Ile	Thr	Thr	Met	Ser	Gly	Phe	Leu	Leu	Met	Gly
1				5				10						15	
Phe	Ser	Asp	Asn	Arg	Glu	Leu	Gln	Ile	Leu	Gln	Ala	Leu	Leu	Phe	Leu
			20					25					30		
Val	Thr	Tyr	Leu	Val	Gly	Ser	Ala	Gly	Asn	Cys	Ile	Ile	Ile	Thr	Ile
		35					40					45			
Thr	Thr	Leu	Asp	Pro	Gln	Leu	Lys	Ser	Pro	Met	Tyr	Tyr	Phe	Leu	Lys
	50					55					60				

His	Leu	Ser	Ile	Leu	Asp	Leu	Ser	Ser	Leu	Ser	Val	Thr	Val	Pro	Gln
65					70					75				80	
Tyr	Val	Asp	Ser	Ser	Leu	Ala	Arg	Ser	Gly	Tyr	Ile	Ser	Tyr	Glu	Gln
			85						90					95	
Cys	Met	Leu	Gln	Ile	Leu	Phe	Phe	Thr	Cys	Phe	Ala	Trp	Asp	Glu	Met
		100						105					110		
Ala	Ile	Leu	Thr	Val	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Val	Cys	Leu
	115						120					125			
Pro	Leu	His	Tyr	Glu	Val	Ile	Met	Ser	Pro	Arg	Lys	Cys	Thr	Trp	Ala
	130					135					140				
Leu	Ala	Ala	Val	Trp	Leu	Ser	Gly	Gly	Val	Ser	Gly	Thr	Leu	Tyr	Thr
145					150					155					160
Ala	Ser	Thr	Leu	Ser	Ile	Arg	Phe	Cys	Gly	Asp	Arg	Ile	Ile	His	Gln
				165					170					175	
Phe	Phe	Cys	Asp	Val	Pro	Gln	Val	Leu	Lys	Leu	Ser	Cys	Ser	Asn	Asp
			180					185					190		
Tyr	Leu	Val	Thr	Ile	Gly	Val	Ala	Asn	Ile	Leu	Ser	Ala	Val	Ala	Phe
	195						200					205			
Ala	Cys	Phe	Ile	Gly	Ile	Val	Ile	Ser	Tyr	Val	His	Ile	Phe	Ser	Thr
	210					215					220				
Val	Leu	Arg	Met	Pro	Ser	Ala	Glu	Ser	Arg	Tyr	Lys	Val	Phe	Ser	Thr
225					230					235					240
Cys	Leu	Pro	His	Leu	Phe	Val	Val	Ser	Leu	Phe	Leu	Ser	Thr	Ser	Thr
				245					250					255	
Phe	Ala	Tyr	Leu	Asn	Pro	Thr	Ala	Asp	Ser	Pro	Thr	Ala	Leu	Glu	Phe
			260					265					270		
Leu	Phe	Ser	Ile	Leu	Tyr	Thr	Val	Leu	Pro	Pro	Thr	Ile	Asn	Pro	Val
	275						280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Glu	Thr	Ile	Lys	Arg	Val	Val	Arg	Lys	Leu
	290					295					300				
Leu	Ser	Ser	Thr	Lys	Phe	Thr	Val	Arg	Ile	Ile					
305					310					315					

<210> 2528  
 <211> 330  
 <212> PRT  
 <213> Mus musculus

<400> 2528

Met	Ile	Cys	Cys	Pro	Phe	Phe	Gln	Glu	Met	Ser	Val	Asn	Cys	Ser	Leu
1				5					10					15	
Trp	Gln	Glu	Asn	Lys	Leu	Ser	Val	Lys	His	Phe	Ala	Phe	Ala	Lys	Phe
			20					25					30		
Ser	Glu	Val	Pro	Glu	Glu	Cys	Phe	Leu	Leu	Phe	Thr	Leu	Ile	Leu	Leu
		35					40					45			
Met	Phe	Leu	Val	Ser	Leu	Thr	Gly	Asn	Ala	Leu	Ile	Thr	Leu	Ala	Ile
	50					55					60				
Cys	Thr	Ser	Pro	Ala	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala	Asn
65					70					75				80	
Leu	Ser	Leu	Leu	Glu	Ile	Gly	Tyr	Thr	Cys	Ser	Val	Ile	Pro	Lys	Met
				85					90					95	
Leu	Gln	Asn	Leu	Val	Ser	Glu	Ile	Arg	Gly	Ile	Ser	Arg	Glu	Gly	Cys
			100					105					110		
Ala	Thr	Gln	Met	Phe	Phe	Phe	Ile	Phe	Phe	Gly	Ile	Thr	Glu	Cys	Cys
		115					120					125			
Leu	Leu	Ala	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Met	Ala	Ile	Cys	Ser	Pro

130	135	140
Leu His Tyr Ala Thr Arg Met Ser Arg Glu Val Cys Ala His Leu Ala		
145	150	155
Leu Val Ser Trp Gly Met Gly Cys Ile Val Gly Leu Gly Gln Thr Asn		160
	165	170
Phe Ile Phe Ser Leu Asn Phe Cys Gly Pro Cys Glu Ile Asp His Phe		175
	180	185
Phe Cys Asp Leu Pro Pro Val Leu Ala Leu Ala Cys Gly Asp Thr Ser		190
	195	200
Gln Asn Glu Ala Ala Ile Phe Val Thr Val Val Leu Cys Ile Ser Ser		205
	210	215
Pro Phe Leu Leu Ile Ile Tyr Ser Tyr Val Arg Ile Leu Phe Ala Val		220
225	230	235
Leu Val Met Pro Ser Pro Glu Gly Arg His Lys Ala Leu Ser Thr Cys		240
	245	250
Ser Ser His Leu Leu Val Val Thr Leu Phe Tyr Gly Ser Ala Ser Ile		255
	260	265
Thr Tyr Leu Arg Pro Lys Ser Ser His Ser Pro Gly Ile Asp Lys Leu		270
	275	280
Leu Ala Leu Phe Tyr Thr Ala Val Thr Ser Met Leu Asn Pro Ile Ile		285
	290	295
Tyr Ser Leu Arg Asn Lys Glu Val Lys Ala Ala Leu Arg Arg Thr Leu		300
305	310	315
Ser Leu Lys Lys Pro Leu Ala Ile Asn Arg		320
	325	330

<210> 2529

<211> 316

<212> PRT

<213> Mus musculus

<400> 2529

Met Ala Asn Ser Thr Leu Val Thr Asn Ser Thr Leu Val Thr Glu Phe	
1	5
Met Leu Glu Asp Phe Ala Glu Thr Trp Glu Leu Arg Ile Leu Leu Ser	
	20
Val Leu Phe Leu Leu Val Tyr Met Gly Ser Leu Leu Gly Asn Leu Thr	
	35
Ile Ile Ile Ala Thr Thr Val Asp Gln Thr Leu Asn Thr Pro Met Tyr	
	50
Phe Phe Leu Arg Asn Leu Ser Ile Leu Asp Met Cys Tyr Ile Ser Val	
65	70
Thr Val Pro Asn Ala Cys Ile Asn Ser Leu Thr Asp His Arg Asn Ile	
	85
Ser Val Ala Gly Cys Val Ala Gln Val Phe Leu Val Leu Phe Cys Ala	
	100
Ala Val Glu Ile Gln Phe Leu Thr Ile Met Ala Gln Asp Arg Tyr Val	
	115
Ala Ile Cys Lys Pro Leu Leu Tyr Pro Met Ile Met Asn His Gln Tyr	
	130
Cys Ile Gln Met Thr Leu Ala Ser Leu Leu Thr Ser Leu Ile Leu Ala	
145	150
Ser Val His Thr Ser Lys Thr Phe Gln Leu Ser Phe Cys His Ser Lys	
	165
Val Ile Pro His Phe Phe Cys Asp Ile Pro Ser Leu Leu Arg Leu Ser	
	180
	185
	190

Cys	Ser	Asp	Thr	Phe	Asn	Asn	Lys	Leu	Leu	Leu	Leu	Leu	Thr	Ala	Ile	
		195					200					205				
Gly	Leu	Ser	Gly	Ser	Cys	Phe	Thr	Phe	Ile	Ala	Ile	Ser	Tyr	Ala	Arg	
	210					215					220					
Ile	Leu	Ser	Ala	Val	Leu	Lys	Val	Pro	Val	Lys	Gly	Glu	Arg	Gly	Lys	
225					230					235					240	
Ala	Phe	Ser	Thr	Cys	Val	Pro	His	Ile	Ile	Val	Val	Ser	Val	Phe	Leu	
				245					250					255		
Ser	Ser	Ala	Ala	Tyr	Val	Tyr	Leu	Arg	Pro	Pro	Val	Val	Thr	Leu	Glu	
			260					265					270			
Val	Val	Gln	Glu	Met	Thr	Leu	Ser	Val	Phe	Tyr	Thr	Ile	Val	Pro	Pro	
		275					280					285				
Phe	Leu	Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Gln	Ile	Lys	Glu	
	290					295					300					
Ala	Val	Lys	Lys	Val	Val	Leu	Arg	Ile	Thr	Phe	Ile					
305					310					315						

<210> 2530

<211> 323

<212> PRT

<213> Mus musculus

<400> 2530

Met	Glu	Asp	Ser	Ser	Met	Ser	Asn	Asp	Thr	Arg	Ile	Thr	Gly	Phe	Ile	
1				5					10					15		
Leu	Met	Gly	Phe	Ser	Ala	Ala	Pro	Glu	Leu	Gln	Thr	Val	Cys	Gly	Leu	
			20					25					30			
Phe	Phe	Leu	Val	Met	Tyr	Val	Ala	Val	Ile	Met	Ser	Asn	Leu	Leu	Leu	
		35					40					45				
Ile	Thr	Leu	Ile	Thr	Leu	Asp	Leu	Lys	Leu	Gln	Thr	Pro	Met	Tyr	Phe	
	50					55				60						
Phe	Leu	Lys	Asn	Leu	Ser	Leu	Leu	Asp	Ile	Phe	Phe	Ile	Ser	Val	Pro	
65					70				75						80	
Ile	Pro	Asn	Phe	Phe	Ile	Asn	Ser	Ile	Thr	His	Asn	Asn	Ser	Ile	Ser	
			85						90				95			
Ile	Leu	Gly	Cys	Ala	Leu	Gln	Val	Phe	Leu	Met	Thr	Ser	Phe	Ala	Ser	
			100					105					110			
Gly	Asp	Val	Phe	Val	Leu	Thr	Ala	Met	Ser	Tyr	Asp	His	Tyr	Val	Ala	
	115						120					125				
Ile	Cys	Cys	Pro	Leu	His	Tyr	Glu	Thr	Ile	Met	Ser	Ser	Gly	Asn	Cys	
	130					135					140					
Val	Leu	Met	Val	Gly	Val	Ser	Trp	Ala	Ile	Gly	Val	Leu	Phe	Gly	Ala	
145					150					155					160	
Leu	Tyr	Thr	Ala	Gly	Thr	Phe	Ser	Met	Pro	Phe	Cys	Gly	Ser	Ile	Val	
				165					170					175		
Ile	Pro	Gln	Phe	Phe	Cys	Asp	Val	Pro	Ser	Leu	Leu	Arg	Ile	Ser	Cys	
			180					185					190			
Ser	Asp	Ile	Leu	Val	Val	Ile	Tyr	Thr	Ser	Leu	Gly	Met	Gly	Val	Cys	
	195						200					205				
Leu	Gly	Met	Ser	Cys	Phe	Ile	Cys	Val	Val	Ile	Ser	Tyr	Phe	Tyr	Ile	
	210					215					220					
Phe	Ser	Thr	Val	Leu	Lys	Ile	Pro	Thr	Thr	Lys	Gly	Gln	Ser	Lys	Ala	
225					230					235					240	
Phe	Ala	Thr	Cys	Leu	Pro	His	Leu	Thr	Val	Phe	Ser	Val	Phe	Ile	Val	
				245					250				255			
Thr	Ala	Cys	Phe	Val	Tyr	Leu	Lys	Pro	Pro	Ser	Val	Val	Pro	Ser	Ile	



<210> 2532  
 <211> 310  
 <212> PRT  
 <213> Mus musculus

<400> 2532  
 Met Gln Ser Gly Asn Gln Thr Ser Val Ser His Phe Ile Leu Val Gly  
 1 5 10 15  
 Leu His His Pro Pro Gln Leu Gly Val Pro Leu Phe Leu Ala Phe Leu  
 20 25 30  
 Val Ile Tyr Leu Leu Thr Val Ser Gly Asn Gly Leu Ile Ile Leu Thr  
 35 40 45  
 Val Leu Val Asp Ile Arg Leu His Arg Pro Met Tyr Trp Phe Leu Cys  
 50 55 60  
 His Leu Ser Phe Leu Asp Leu Thr Ile Ser Ser Ala Ile Val Pro Lys  
 65 70 75 80  
 Met Leu Ser Gly Phe Leu Leu Asp Ser Arg Ile Ile Ser Phe Gly Gly  
 85 90 95  
 Cys Val Ile Gln Leu Phe Ser Phe His Phe Leu Gly Cys Thr Glu Cys  
 100 105 110  
 Phe Leu Tyr Thr Leu Met Ala Tyr Asp Arg Phe Leu Ala Ile Cys Lys  
 115 120 125  
 Pro Leu His Tyr Ala Thr Ile Met Thr Arg Ser Val Cys Asn Tyr Leu  
 130 135 140  
 Ala Leu Gly Thr Trp Ile Gly Gly Thr Ile His Ser Leu Phe Gln Thr  
 145 150 155 160  
 Ser Phe Ile Phe Arg Leu Pro Phe Cys Gly Pro Asn Arg Val Asp Tyr  
 165 170 175  
 Phe Phe Cys Asp Ile Pro Ala Val Leu Arg Leu Val Cys Ala Asp Thr  
 180 185 190  
 Thr Ile Asn Glu Leu Val Thr Phe Val Asp Ile Gly Phe Leu Ala Leu  
 195 200 205  
 Thr Cys Phe Met Leu Ile Leu Thr Ser Tyr Gly Tyr Ile Val Ala Ala  
 210 215 220  
 Ile Leu Arg Ile Arg Ser Ala Asp Gly Arg Arg Asn Ala Phe Ser Thr  
 225 230 235 240  
 Cys Ala Ala His Leu Thr Val Val Ile Val Tyr Tyr Val Pro Cys Thr  
 245 250 255  
 Phe Ile Tyr Leu Arg Pro Gly Ser Gln Glu Pro Leu Asp Gly Val Val  
 260 265 270  
 Ala Val Phe Tyr Thr Val Ile Thr Pro Leu Leu Asn Pro Ile Ile Tyr  
 275 280 285  
 Thr Leu Arg Asn Lys Gln Met Lys Ala Ala Leu Arg Arg Leu Gly Gly  
 290 295 300  
 Leu Arg Glu Val His Pro  
 305 310

<210> 2533  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2533  
 Met Arg Asn His Thr Ser Val Thr Glu Phe Ile Leu Leu Gly Ile Pro

1		5		10		15									
Thr	Val	Lys	Glu	Gly	Leu	Glu	Ser	Met	Leu	Phe	Ala	Leu	Phe	Leu	Val
		20					25						30		
Phe	Tyr	Val	Phe	Ala	Leu	Leu	Gly	Asn	Leu	Leu	Ile	Phe	Leu	Thr	Ile
		35					40					45			
Leu	Ala	Ser	Pro	Asn	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn
	50					55					60				
Leu	Ala	Val	Phe	Asp	Ile	Phe	Phe	Pro	Ser	Val	Asn	Ser	Pro	Lys	Met
65				70						75				80	
Met	Asp	Tyr	Leu	Val	Arg	Gln	Gly	Arg	Thr	Ile	Ser	Tyr	Gln	Gly	Cys
			85					90					95		
Val	Ser	Gln	Val	Phe	Phe	Tyr	His	Thr	Leu	Gly	Gly	Thr	Glu	Cys	Phe
		100						105				110			
Leu	Tyr	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His	Pro
		115					120					125			
Met	Arg	Tyr	Thr	Val	Ile	Met	Asn	His	Arg	Val	Cys	Thr	Cys	Leu	Thr
	130					135					140				
Leu	Gly	Thr	Trp	Val	Gly	Gly	Phe	Val	His	Gly	Ser	Ile	Leu	Thr	Phe
145				150				155						160	
Leu	Ile	Phe	Lys	Leu	Pro	Tyr	Cys	Gly	Pro	Asn	Lys	Val	Asn	Ser	Phe
			165					170					175		
Phe	Cys	Asp	Ile	Pro	Val	Val	Leu	Ser	Leu	Ala	Cys	Ala	Asp	Thr	Ser
		180						185					190		
Leu	Ala	Arg	Thr	Val	Ser	Phe	Thr	Asn	Val	Gly	Val	Val	Ala	Leu	Thr
		195					200					205			
Cys	Phe	Leu	Leu	Ile	Leu	Thr	Ser	Tyr	Thr	Arg	Ile	Val	Ile	Ser	Ile
	210					215					220				
Leu	Lys	Ile	Arg	Ser	Ser	Glu	Gly	Arg	Arg	Arg	Ala	Phe	Ser	Thr	Cys
225				230				235						240	
Ser	Ala	His	Leu	Thr	Ser	Ile	Ile	Leu	Val	Tyr	Gly	Pro	Val	Ile	Leu
			245					250					255		
Val	Tyr	Leu	Arg	Pro	Ala	Ser	Ser	Pro	Trp	Leu	Asp	Ser	Val	Val	Gln
		260						265					270		
Val	Phe	Asn	Asn	Val	Ile	Thr	Pro	Ser	Leu	Asn	Pro	Leu	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Lys	Asp	Val	Lys	Leu	Ala	Leu	Lys	Lys	Val	Val	Ser	Gln
	290					295					300				
Gly	Ala	Gln	Pro	Leu	Gly	Tyr	Lys	Glu							
305					310										

<210> 2534

<211> 314

<212> PRT

<213> Mus musculus

<400> 2534

Met	Glu	Val	Cys	Asn	Ser	Thr	Leu	Arg	Ser	Gly	Phe	Ile	Leu	Met	Gly
1				5				10					15		
Ile	Leu	Asp	Asp	Asn	Asp	Phe	Pro	Glu	Leu	Leu	Cys	Ala	Thr	Ile	Thr
		20						25				30			
Ala	Leu	Tyr	Leu	Leu	Ala	Leu	Thr	Ser	Asn	Gly	Leu	Leu	Leu	Leu	Val
		35					40				45				
Ile	Thr	Met	Asp	Ala	Arg	Leu	His	Val	Pro	Met	Tyr	Leu	Leu	Leu	Trp
	50					55					60				
Gln	Leu	Ser	Leu	Met	Asp	Leu	Leu	Leu	Thr	Ser	Val	Ile	Thr	Pro	Lys
65					70					75				80	



Ala	Ile	Leu	Asp	Tyr	Leu	Leu	Lys	Asp	Asn	Thr	Ile	Ser	Phe	Gly	Gly		
			85						90					95			
Cys	Ala	Leu	Gln	Met	Phe	Leu	Ala	Leu	Thr	Leu	Gly	Thr	Ala	Glu	Asp		
			100					105					110				
Leu	Leu	Leu	Ser	Phe	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His		
			115				120					125					
Pro	Leu	Asn	Tyr	Thr	Ile	Leu	Met	Ser	Gln	Lys	Val	Cys	Cys	Leu	Met		
			130				135				140						
Ile	Ala	Thr	Ser	Trp	Ser	Leu	Ala	Ser	Leu	Ser	Ala	Leu	Gly	Tyr	Ser		
145					150				155						160		
Met	Tyr	Thr	Met	Gln	Tyr	Pro	Phe	Cys	Lys	Ser	Arg	Gln	Ile	Arg	His		
				165					170					175			
Leu	Phe	Cys	Glu	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Ala	Asp	Thr		
			180					185					190				
Ser	Thr	Tyr	Glu	Leu	Met	Val	Tyr	Leu	Met	Gly	Val	Thr	Leu	Leu	Phe		
			195				200					205					
Pro	Ala	Leu	Ala	Ala	Ile	Leu	Ala	Ser	Tyr	Ser	Leu	Ile	Leu	Phe	Thr		
			210				215					220					
Val	Leu	His	Met	Pro	Ser	Asn	Glu	Gly	Arg	Arg	Lys	Ala	Leu	Val	Thr		
225					230					235					240		
Cys	Ser	Ser	His	Leu	Thr	Val	Val	Gly	Met	Trp	Phe	Gly	Gly	Ala	Ile		
				245					250					255			
Val	Met	Tyr	Val	Leu	Pro	Ser	Ser	Phe	His	Ser	Pro	Lys	Gln	Asp	Asn		
			260					265					270				
Ile	Ser	Ser	Val	Phe	Tyr	Thr	Ile	Phe	Thr	Pro	Ala	Leu	Asn	Pro	Leu		
			275				280					285					
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Thr	Gly	Ala	Leu	Arg	Arg	Val		
			290			295					300						
Leu	Gly	Lys	Ser	Leu	Val	Ser	Thr	Val	Tyr								
305					310												

<210> 2535

<211> 315

<212> PRT

<213> Mus musculus

<400> 2535

Met	Tyr	Thr	Trp	Asn	His	Thr	Asn	Met	Pro	Asp	Phe	Ile	Leu	Met	Gly		
1				5				10					15				
Leu	Thr	Asp	Ser	Lys	Glu	Ile	Gln	Leu	Ile	Leu	Ser	Val	Leu	Phe	Leu		
			20					25					30				
Leu	Ile	Tyr	Leu	Val	Thr	Val	Leu	Gly	Asn	Ile	Gly	Met	Ile	Leu	Ile		
			35				40					45					
Ile	Tyr	Ile	Asp	Thr	Gln	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Thr		
			50				55				60						
His	Leu	Ser	Val	Val	Asp	Leu	Ser	Tyr	Ser	Thr	Ala	Ile	Thr	Pro	Lys		
65					70					75					80		
Thr	Leu	Glu	Asn	Met	Leu	Thr	Thr	Asn	Lys	Ser	Ile	Ser	Tyr	Thr	Asn		
				85					90					95			
Cys	Phe	Ala	Gln	Leu	Tyr	Ile	Phe	Ile	Leu	Leu	Ala	Ala	Thr	Glu	Cys		
			100					105					110				
Phe	Leu	Leu	Ser	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Asn		
			115				120					125					
Pro	Leu	His	Tyr	Pro	Val	Ile	Met	Ser	Pro	Arg	Cys	Cys	Leu	Ala	Leu		
			130				135					140					
Leu	Thr	Gly	Ser	Tyr	Val	Ile	Gly	Ala	Val	Asp	Ser	Thr	Leu	Thr	Val		

145		150		155		160									
Phe	Ser	Met	Ile	Thr	Leu	His	Phe	Cys	Lys	Ser	Asn	Val	Ile	Arg	His
		165		170		175									
Phe	Tyr	Cys	Asp	Thr	Ser	Pro	Leu	Leu	Ser	Leu	Ser	Cys	Ser	Asp	Thr
		180		185		190									
His	Val	Val	Glu	Ile	Ile	Ile	Phe	Ile	Phe	Ala	Gly	Ser	Thr	Ile	Leu
		195		200		205									
Gly	Ser	Leu	Ile	Thr	Ile	Ser	Gly	Ser	Tyr	Val	Ser	Ile	Leu	Ser	Thr
	210			215		220									
Ile	Leu	Asn	Ile	Asn	Ser	Thr	Ser	Gly	Lys	Gln	Lys	Ala	Phe	Ser	Thr
	225			230		235									
Cys	Ala	Ser	His	Leu	Leu	Gly	Val	Thr	Val	Phe	Tyr	Ser	Thr	Leu	Ile
		245		250		255									
Phe	Thr	Tyr	Leu	Lys	Pro	Thr	Lys	Ser	Tyr	Ser	Leu	Gly	Lys	Glu	Glu
		260		265		270									
Val	Ala	Ser	Val	Phe	Tyr	Thr	Ile	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275		280		285									
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Ser	Ala	Val	Val	Arg	Leu
	290			295		300									
Val	Lys	Thr	Arg	Gln	Gly	Ser	Arg	Lys	Leu	Ile					
	305			310		315									

<210> 2536

<211> 317

<212> PRT

<213> Mus musculus

<400> 2536

Met	Lys	Ala	Tyr	Ser	Glu	Ala	Lys	His	Asn	Gly	Thr	Glu	Ala	Thr	Glu
1				5					10					15	
Phe	Ile	Leu	Leu	Gly	Leu	Ser	Thr	Arg	Pro	Glu	Leu	Gln	Pro	Ile	Leu
		20						25					30		
Phe	Leu	Val	Phe	Leu	Thr	Ile	Tyr	Leu	Ile	Thr	Leu	Thr	Gly	Asn	Phe
		35					40						45		
Gly	Met	Ile	Leu	Leu	Ile	Arg	Phe	Thr	Pro	Gln	Leu	Gln	Thr	Pro	Met
	50					55					60				
Tyr	Phe	Phe	Leu	Thr	His	Leu	Ala	Cys	Val	Asp	Ile	Phe	Tyr	Ser	Thr
	65				70					75				80	
Asn	Val	Ser	Pro	Gln	Met	Leu	Val	Asn	Phe	Leu	Ser	Glu	Lys	Lys	Thr
			85						90					95	
Ile	Ser	Tyr	Ile	Gly	Cys	Leu	Thr	Gln	Cys	Phe	Val	Phe	Val	Thr	Leu
		100						105						110	
Leu	Leu	Thr	Glu	Tyr	Tyr	Met	Leu	Gly	Ala	Met	Ala	Tyr	Asp	Arg	Tyr
		115					120						125		
Met	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Ser	Thr	Lys	Met	Ser	Arg	Pro
	130					135						140			
Val	Cys	Ile	Cys	Leu	Val	Thr	Phe	Pro	Tyr	Phe	Trp	Gly	Ser	Met	Val
	145				150					155					160
Gly	Thr	Met	Gln	Val	Ile	Leu	Thr	Ser	Arg	Leu	Ser	Phe	Cys	Gly	Pro
			165						170					175	
Asn	Thr	Ile	Asn	His	Phe	Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Leu	Met	Leu
		180						185						190	
Thr	Cys	Ser	Asp	Thr	Tyr	Ile	Lys	Gln	Thr	Ala	Leu	Phe	Val	Ser	Ala
		195					200						205		
Gly	Ile	Asn	Leu	Thr	Gly	Ser	Leu	Leu	Ile	Ile	Leu	Ile	Ser	Tyr	Ile
	210					215					220				

Phe	Ile	Phe	Ile	Thr	Ile	Met	Arg	Ile	Arg	Ser	Ser	Glu	Gly	Gln	Arg
225					230					235					240
Lys	Ala	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Ala	Val	Thr	Met	Phe
				245					250					255	
Tyr	Gly	Ser	Leu	Phe	Cys	Met	Tyr	Leu	Arg	Pro	Ala	Asn	Glu	Arg	Ser
			260					265					270		
Val	Glu	Gln	Gly	Lys	Ile	Ile	Ala	Val	Phe	Cys	Ile	Phe	Val	Ser	Pro
		275					280					285			
Met	Val	Asn	Pro	Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Gln
	290					295					300				
Ala	Leu	Arg	Arg	Val	Phe	Ile	Arg	Asn	Leu	Cys	Lys	Val			
305					310					315					

<210> 2537

<211> 314

<212> PRT

<213> Mus musculus

<400> 2537

Met	Glu	Glu	Lys	Asn	Gln	Thr	Val	Met	Pro	Glu	Phe	Leu	Phe	Arg	Gly
1				5				10						15	
Ile	Thr	Asp	Asn	Leu	His	Gln	Lys	Ile	Val	Ile	Phe	Ile	Ile	Phe	Phe
			20					25					30		
Phe	Val	Tyr	Leu	Val	Thr	Leu	Gly	Gly	Asn	Val	Gly	Met	Ile	Thr	Leu
		35					40					45			
Ile	Trp	Leu	Asp	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Gln	Leu	Ser	Phe	Val	Asp	Val	Ser	Ser	Ser	Ser	Ser	Ile	Ala	Pro	Lys
65					70					75					80
Met	Leu	Cys	Asp	Ile	Phe	Ala	Arg	Asn	Lys	Ala	Ile	Ser	Phe	Val	Gly
				85					90					95	
Cys	Ala	Thr	Gln	Met	Trp	Phe	Phe	Gly	Leu	Phe	Val	Ala	Thr	Glu	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys
			115				120					125			
Pro	Leu	Leu	Tyr	Thr	Leu	Ile	Met	Ser	Pro	His	Leu	Cys	Met	Leu	Leu
	130					135					140				
Val	Val	Gly	Ile	Tyr	Phe	Ile	Ala	Leu	Ile	Ser	Thr	Met	Ile	His	Thr
145					150					155					160
Thr	Leu	Thr	Phe	Cys	Leu	Pro	Phe	Cys	Gly	Pro	Tyr	Ile	Ile	Asn	His
				165					170					175	
Phe	Phe	Cys	Asp	Val	Ser	Pro	Leu	Leu	Ser	Leu	Ala	Cys	Thr	Asp	Thr
			180					185					190		
Gln	Met	Ile	Lys	Leu	Val	Phe	Phe	Val	Leu	Ala	Gly	Thr	Val	Gly	Met
		195					200					205			
Phe	Thr	Gly	Leu	Ile	Ile	Leu	Gly	Ser	Tyr	Val	Cys	Ile	Leu	Lys	Ala
	210					215					220				
Ile	Leu	Lys	Ile	Gln	Thr	Ala	Asn	Gly	Arg	Gln	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Val	Thr	Val	Ala	Ile	Leu	Tyr	Gly	Thr	Leu	Phe
				245					250					255	
Phe	Ile	Tyr	Val	Arg	Pro	Asn	Ala	Ser	Ser	Ser	Leu	Asn	Ile	Asn	Lys
			260					265					270		
Val	Ile	Ser	Leu	Phe	Tyr	Thr	Val	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Gln	Glu	Val	Lys	Asn	Ala	Phe	Arg	Arg	Thr

290		295	300
Leu Lys Lys Lys His Phe	Leu Ile Gly Val		
305	310		

<210> 2538  
 <211> 315  
 <212> PRT  
 <213> Mus musculus

<400> 2538  
 Met Glu Ile Glu Asn His Thr Leu Ile Thr Lys Phe Leu Ile Leu Gly  
 1 5 10 15  
 Leu Ser Asp Asp Pro Glu Leu Gln Pro Ile Leu Phe Gly Leu Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Val Thr Leu Leu Gly Asn Leu Leu Ile Ile Leu Ala  
 35 40 45  
 Val Ser Ser Asp Ser His Leu His Lys Pro Met Tyr Phe Leu Leu Ser  
 50 55 60  
 Asn Leu Ser Phe Ile Asp Ile Cys Phe Ile Ser Thr Thr Ile Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Met Gln Ser Gln Ile Lys Asp Ile Ser Tyr Ile Glu  
 85 90 95  
 Cys Leu Thr Gln Val Phe Phe Phe Asn Ile Phe Ala Gly Met Asp Asn  
 100 105 110  
 Phe Leu Leu Thr Leu Met Ala Tyr Asp Arg Phe Val Ala Ile Cys His  
 115 120 125  
 Pro Leu Asn Tyr Thr Val Ile Met Asn Pro Arg Leu Cys Ala Leu Leu  
 130 135 140  
 Ile Leu Met Phe Trp Ile Ile Met Phe Trp Val Ser Leu Ile His Val  
 145 150 155 160  
 Leu Leu Met Asn Glu Leu Asn Phe Ser Arg Gly Thr Glu Ile Pro His  
 165 170 175  
 Phe Phe Cys Glu Leu Ala Gln Val Leu Lys Val Ser Asn Ser Asp Asn  
 180 185 190  
 His Val Asn Asn Val Phe Met Tyr Val Val Thr Ser Leu Leu Gly Val  
 195 200 205  
 Ile Pro Met Thr Gly Ile Leu Met Ser Tyr Ser Gln Ile Phe Ser Ser  
 210 215 220  
 Leu Phe Arg Met Ser Ser Thr Val Ser Lys Tyr Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Cys Val Val Thr Leu Phe Tyr Gly Ser Gly Phe  
 245 250 255  
 Gly Val Tyr Phe Ser Ser Ser Val Val His Ser Thr Gln Arg Arg Lys  
 260 265 270  
 Val Ala Ser Leu Met Tyr Thr Val Ile Ser Pro Met Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Gly Lys Leu  
 290 295 300  
 Phe Asn Arg Val Ala Ser Ser Pro Ser Cys Ile  
 305 310 315

<210> 2539  
 <211> 318  
 <212> PRT  
 <213> Mus musculus

<400> 2539

Met	Lys	Asn	Gln	Ser	Val	Glu	Ile	Ile	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Leu	Gln	Ile	Leu	Ile	Phe	Leu	Phe	Leu	Phe	Phe	Asn
			20					25					30		
Tyr	Ile	Leu	Ser	Leu	Met	Gly	Asn	Leu	Val	Ile	Ile	Leu	Leu	Thr	Leu
		35					40					45			
Leu	Asp	Pro	Arg	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Arg	Asn	Phe
	50					55					60				
Ser	Phe	Leu	Glu	Ile	Ala	Phe	Thr	Thr	Ala	Cys	Ile	Pro	Arg	Phe	Leu
65					70					75					80
Met	Ser	Ile	Leu	Thr	Gly	Asp	Arg	Thr	Ile	Ser	Tyr	Asn	Ala	Cys	Ala
				85					90					95	
Ala	Gln	Phe	Phe	Phe	Phe	Ser	Leu	Leu	Leu	Val	Thr	Glu	Phe	Tyr	Leu
			100					105					110		
Leu	Ala	Ala	Met	Ser	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Arg	Pro	Leu
		115					120					125			
His	Tyr	Pro	Ile	Ile	Met	Asn	Asn	Arg	Met	Cys	His	Leu	Leu	Val	Leu
	130					135					140				
Ser	Cys	Trp	Val	Thr	Gly	Phe	Leu	Ile	Ile	Leu	Pro	Pro	Leu	Val	Leu
145					150					155					160
Gly	Leu	Lys	Leu	Asp	Phe	Cys	Ala	Ser	Lys	Thr	Ile	Asp	His	Phe	Leu
				165					170					175	
Cys	Asp	Thr	Ser	Pro	Leu	Leu	Gln	Leu	Ser	Cys	Thr	Asp	Thr	His	Phe
			180					185					190		
Met	Glu	Leu	Met	Ala	Phe	Val	Ile	Ala	Leu	Met	Thr	Leu	Val	Ile	Thr
		195					200					205			
Leu	Ile	Leu	Val	Ile	Leu	Ser	Tyr	Thr	Leu	Ile	Ile	Lys	Thr	Ile	Leu
	210					215					220				
Lys	Phe	Pro	Ser	Ala	Gln	Gln	Arg	Lys	Lys	Ala	Phe	Ser	Thr	Cys	Ser
225					230					235					240
Ser	His	Met	Val	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Met
				245					250					255	
Tyr	Met	Lys	Thr	Ser	Ala	Lys	Glu	Arg	Val	Ala	Leu	Asn	Lys	Gly	Val
			260					265					270		
Ser	Val	Leu	Asn	Thr	Ser	Val	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr
		275					280					285			
Thr	Leu	Arg	Asn	Gln	Gln	Val	Lys	Asp	Ala	Phe	Lys	Gln	Val	Leu	His
	290					295					300				
Arg	Leu	Tyr	Ser	His	Asn	Ser	Glu	Leu	Arg	Phe	Arg	Pro	Lys		
305					310					315					

<210> 2540

<211> 312

<212> PRT

<213> Mus musculus

<400> 2540

Met	Arg	Asn	His	Thr	Ser	Ile	Thr	Thr	Phe	Ile	Leu	Leu	Gly	Leu	Thr
1				5					10					15	
Asp	Asp	Pro	Gln	Leu	Gln	Val	Leu	Leu	Phe	Ile	Phe	Leu	Phe	Ile	Thr
			20					25					30		
Tyr	Leu	Leu	Ser	Val	Thr	Gly	Asn	Leu	Thr	Ile	Ile	Thr	Leu	Thr	Thr
		35					40					45			
Val	Asp	Pro	Tyr	Leu	Lys	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Gln	Asn	Phe

50		55		60
Ser Phe Leu Glu Ile	Ser Phe Thr Ser Ala Cys Val Pro Arg Phe Leu			
65	70	75	80	
Tyr Ser Ile Ser Thr Gly Asp Arg Thr Ile Thr Tyr Asn Ala Cys Ala				
	85	90	95	
Thr Gln Leu Phe Phe Thr Asp Leu Phe Gly Val Thr Glu Phe Phe Leu				
	100	105	110	
Leu Ala Ile Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu				
	115	120	125	
His Tyr Met Thr Ile Met Asn Asn Lys Val Cys Arg Ile Met Val Ile				
	130	135	140	
Ser Cys Trp Met Ala Ala Phe Met Ile Ile Leu Pro Pro Leu Ser Leu				
	145	150	155	160
Gly Phe His Leu Glu Phe Cys Asp Ser Asn Ile Ile Asp His Phe Gly				
	165	170	175	
Cys Asp Ala Asn Pro Ile Leu Lys Ile Ser Cys Ser Asp Thr Trp Leu				
	180	185	190	
Ile Glu Gln Met Val Ile Gly Ser Ala Val Leu Thr Phe Ile Ile Thr				
	195	200	205	
Leu Leu Cys Val Val Phe Ser Tyr Met Tyr Ile Ile Arg Thr Val Leu				
	210	215	220	
Lys Phe Pro Ser Ala Gln Gln Lys Arg Lys Ala Phe Ser Thr Cys Ser				
	225	230	235	240
Ser His Met Ile Val Val Ser Ile Thr Tyr Gly Ser Cys Ile Phe Ile				
	245	250	255	
Tyr Val Lys Pro Ser Ala Lys Glu Ala Val Thr Ile Asn Lys Gly Val				
	260	265	270	
Ser Val Leu Ile Ser Ser Ile Ser Pro Met Leu Asn Pro Phe Ile Tyr				
	275	280	285	
Thr Leu Arg Asn Lys Gln Val Lys Gln Ala Ser Gln Asp Leu Ile Lys				
	290	295	300	
Lys Ile Ala Phe Leu Leu Lys Lys				
305	310			

<210> 2541  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2541
Met Lys Asn Gln Ser Met Glu Ile Leu Ile Leu Leu Gly Leu Thr Asp
1 5 10 15
Asp Pro Gln Leu Gln Ile Val Val Phe Leu Phe Leu Phe Leu Asn Tyr
20 25 30
Val Met Ser Leu Val Gly Asn Leu Ile Ile Val Leu Leu Thr Leu Leu
35 40 45
Asp Pro Arg Leu Lys Thr Pro Met Tyr Phe Phe Leu Arg Asn Phe Ser
50 55 60
Phe Leu Glu Ile Met Phe Thr Thr Val Cys Ile Pro Arg Phe Leu Thr
65 70 75 80
Thr Ile Val Thr Gly Asp Lys Thr Ile Thr Tyr Asn Asn Cys Ala Ala
85 90 95
Gln Leu Phe Phe Ile Leu Leu Leu Gly Val Thr Glu Phe Tyr Leu Leu
100 105 110
Ala Ala Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys Arg Pro Leu His
115 120 125

Tyr	Pro	Ile	Ile	Met	Asn	Ser	Lys	Val	Cys	His	Gln	Leu	Val	Leu	Ser
130						135					140				
Ser	Trp	Val	Thr	Gly	Phe	Leu	Ile	Ile	Phe	Pro	Pro	Leu	Ala	Met	Gly
145					150					155					160
Leu	Lys	Leu	Asp	Phe	Cys	Asp	Ser	Arg	Ile	Ile	Asp	His	Phe	Met	Cys
				165					170					175	
Glu	Thr	Ser	Pro	Ile	Leu	Gln	Ile	Ser	Cys	Thr	Asp	Thr	His	Val	Leu
			180					185					190		
Glu	Met	Met	Ser	Phe	Val	Leu	Ala	Val	Val	Thr	Leu	Val	Val	Thr	Leu
		195					200					205			
Val	Leu	Val	Ser	Leu	Ser	Tyr	Ser	Phe	Ile	Ile	Lys	Thr	Ile	Met	Ser
	210					215					220				
Phe	Pro	Ser	Ala	Gln	Gln	Arg	Thr	Lys	Ala	Phe	Ser	Thr	Cys	Thr	Ser
225					230					235					240
His	Met	Phe	Val	Val	Ser	Ile	Thr	Tyr	Gly	Ser	Cys	Ile	Phe	Met	Tyr
				245					250					255	
Ile	Lys	Pro	Ser	Ala	Arg	Glu	Arg	Val	Ser	Val	Ser	Lys	Gly	Val	Ala
			260					265					270		
Leu	Leu	Tyr	Thr	Ser	Ile	Ala	Pro	Leu	Leu	Asn	Pro	Phe	Ile	Tyr	Thr
		275					280					285			
Leu	Arg	Asn	Gln	Gln	Val	Lys	Glu	Val	Phe	Trp	Asp	Val	Leu	Gln	Lys
	290					295					300				
Thr	Leu	Gly	Phe	Ser	Lys	His	Lys	Phe							
305					310										

<210> 2542

<211> 313

<212> PRT

<213> Mus musculus

<400> 2542

Met	Glu	Lys	Glu	Asn	Gln	Thr	Ser	Val	Ser	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Phe	Ser	Ser	Trp	Pro	Gly	His	Gln	Gly	Leu	Leu	Phe	Ala	Leu	Phe	Leu
			20					25					30		
Cys	Leu	Tyr	Leu	Thr	Gly	Leu	Phe	Gly	Asn	Leu	Leu	Ile	Leu	Leu	Ala
		35					40					45			
Ile	Gly	Ser	Asn	Asn	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Leu	Val	Asp	Leu	Cys	Leu	Pro	Ser	Ala	Thr	Val	Pro	Lys
65					70					75					80
Met	Leu	Leu	Asn	Ile	Gln	Thr	Lys	Ser	Gln	Ser	Ile	Ser	Tyr	Pro	Gly
			85						90					95	
Cys	Leu	Ala	Gln	Met	Tyr	Phe	Cys	Met	Met	Phe	Ala	Asn	Met	Asp	Asn
			100					105					110		
Phe	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	Thr	Pro	Cys	Leu	Cys	Thr	Ser	Leu
	130					135					140				
Val	Ala	Phe	Ser	Trp	Val	Ile	Ala	Thr	Phe	Asn	Pro	Leu	Leu	His	Thr
145					150					155					160
Leu	Met	Met	Ala	Arg	Leu	His	Phe	Cys	Ser	Glu	Asn	Ile	Ile	His	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Asn	Ser	Leu	Leu	Pro	Leu	Ser	Cys	Ser	Asp	Thr
			180					185				190			
Ser	Leu	Asn	Gln	Leu	Met	Val	Leu	Ser	Val	Val	Gly	Leu	Ile	Phe	Val

195	200	205
Val Pro Ser Val Cys Ile	Leu Ala Ser Tyr Gly Arg	Ile Val Ser Ala
210	215	220
Val Met Lys Ile Thr Ser	Met Glu Gly Lys Leu Lys	Ala Phe Ser Thr
225	230	235
Cys Gly Ser His Leu	Ala Leu Val Ile Leu Phe Tyr	Gly Ala Ile Ala
245	250	255
Gly Ile Tyr Met Ser	Pro Ser Ser Asn His Ser Thr	Glu Lys Asp Ser
260	265	270
Ala Ala Ser Val Ile Phe	Met Val Val Ala Pro Val	Leu Asn Pro Phe
275	280	285
Ile Tyr Ser Leu Arg Asn	Asn Glu Leu Lys Gly Thr	Leu Lys Lys Thr
290	295	300
Leu Gly Gln Ser Lys Ile	Cys Ser Lys	
305	310	

<210> 2543  
 <211> 280  
 <212> PRT  
 <213> Mus musculus

<400> 2543

Leu Leu Thr Leu Met Gly	Asn Leu Gly Ile Leu Val Val	Ile Lys Val
1	5	10
Asn Pro Lys Leu His Thr	Pro Met Tyr Phe Phe Leu Asn	His Leu Ser
20	25	30
Phe Leu Asp Ile Cys Tyr	Ser Ser Val Phe Thr Pro Lys	Leu Leu Gln
35	40	45
Ile Leu Ile Met Glu Asp	Gly Thr Ile Ser Phe Ile Gly	Cys Met Ile
50	55	60
Gln Phe Phe Phe Ile Cys	Thr Phe Val Ile Thr Glu Ile	Phe Met Leu
65	70	75
Ala Val Met Ala Tyr Asp	Arg Phe Val Ala Val Cys Asn	Pro Leu Tyr
85	90	95
Tyr Thr Leu Ile Val Met	Pro Ile Gln Phe Cys Ala Leu	Leu Val Ala
100	105	110
Gly Thr Tyr Met Ile Ser	Gly Leu Cys Thr Leu Ile Ile	Leu Tyr Thr
115	120	125
Leu Leu Gln Leu Cys Tyr	Phe Glu His Gly Ile Ile Asn	His Phe Gly
130	135	140
Cys Glu Tyr Ser Ala Val	Ile Ser Val Ser Cys Ser Asp	Ser Ser Phe
145	150	155
Ser Gln Leu Ile Cys Leu	Val Met Ser Ile Ala Ser Glu	Phe Ser Ser
165	170	175
Val Leu Ile Thr Leu Ala	Ser Tyr Val Phe Ile Val Val	Thr Ile Ile
180	185	190
Lys Met Pro Ser Lys Gly	Gly Leu Gln Lys Ala Phe Ser	Thr Cys Thr
195	200	205
Ser His Leu Thr Ala Ile	Thr Ile Phe His Gly Ile Leu	Leu Leu Leu
210	215	220
Tyr Cys Ile Pro Asn Ser	Asn Ser Ser Arg Leu Phe Val	Lys Val Ala
225	230	235
Thr Ala Leu Tyr Thr Ile	Met Ile Pro Met Leu Asn	Pro Leu Ile Tyr
245	250	255
Ser Leu Arg Asn Lys Asp	Val Lys Asp Thr Val Arg Arg	Leu Ile Ser
260	265	270



Ser Lys Leu His Ser His Leu Thr  
 275 280

<210> 2544  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<400> 2544  
 Leu Tyr Ser Ile Gln Glu Asn Gln Ser Ser Thr Val Thr Phe Ile Leu  
 1 5 10 15  
 Val Gly Phe Ser Glu Tyr Pro Asp Ile Gln Leu Pro Leu Phe Leu Leu  
 20 25 30  
 Phe Leu Thr Ile Tyr Thr Val Thr Val Leu Gly Asn Leu Gly Met Ile  
 35 40 45  
 Ala Ile Ile Arg Leu Ser Pro Lys Leu His Thr Pro Met Tyr Phe Phe  
 50 55 60  
 Leu Ser His Leu Ser Phe Val Asp Phe Cys Tyr Ser Thr Val Val Thr  
 65 70 75 80  
 Pro Lys Leu Leu Glu Asn Leu Ile Val Glu Asp Arg Arg Ile Ser Phe  
 85 90 95  
 Thr Gly Cys Val Met Gln Phe Phe Phe Val Cys Ile Phe Val Val Thr  
 100 105 110  
 Glu Thr Phe Met Leu Ala Val Met Ala Tyr Asp Arg Phe Val Ala Val  
 115 120 125  
 Cys Asn Pro Leu Leu Tyr Thr Val Ala Met Ser Gln Lys Leu Cys Trp  
 130 135 140  
 Ser Leu Val Ala Gly Ser Tyr Ser Trp Gly Ile Ile Cys Ser Phe Val  
 145 150 155 160  
 Phe Ile His Phe Met Leu Thr Leu Val Phe Cys Gly Thr Lys Phe Ile  
 165 170 175  
 Asn Asn Phe Val Cys Glu His Asp Ala Ile Val Ala Val Ser Cys Ser  
 180 185 190  
 Asp Pro Phe Ile Ser Gln Lys Val Ile Phe Ile Phe Ala Thr Phe Asn  
 195 200 205  
 Glu Leu Ser Ser Leu Met Ile Ile Leu Thr Ser Tyr Val Phe Ile Val  
 210 215 220  
 Ile Thr Val Met Lys Met Pro Thr Thr Gly Gly Arg Tyr Lys Val Phe  
 225 230 235 240  
 Ser Thr Cys Ala Ser His Leu Thr Thr Ile Thr Ile Phe His Ser Ile  
 245 250 255  
 Ile Ile Cys Leu Tyr Cys Val Pro Thr Thr Lys Ser Ser Trp Leu Leu  
 260 265 270  
 Val Met Val Ala Ser Val Phe Tyr Thr Val Val Ile Pro Met Leu Asn  
 275 280 285  
 Pro Leu Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Asp Ala Val Lys  
 290 295 300  
 Lys Leu Met Cys Ser Ser Leu Ser Ser  
 305 310

<210> 2545  
 <211> 312  
 <212> PRT  
 <213> Mus musculus

<400> 2545

Gln	Leu	Arg	Asp	Arg	Gly	Asn	Gln	Thr	Asn	Ser	Val	Ile	Phe	Ile	Leu
1				5					10					15	
Leu	Gly	Phe	Ser	Glu	Tyr	Pro	Asp	Leu	Gln	Val	Pro	Leu	Phe	Phe	Val
			20					25					30		
Phe	Leu	Ile	Ile	Tyr	Thr	Ile	Thr	Val	Leu	Gly	Asn	Leu	Gly	Met	Ile
		35					40					45			
Gly	Ile	Ile	Arg	Ile	Asn	Thr	Lys	Leu	Arg	Ser	Thr	Pro	Met	Tyr	Phe
	50					55					60				
Phe	Leu	Ser	His	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr	Ser	Thr	Val	Val
65					70					75					80
Thr	Pro	Lys	Leu	Leu	Glu	Asn	Leu	Ile	Ile	Glu	Asp	Arg	Thr	Ile	Ser
				85					90					95	
Phe	Ser	Gly	Cys	Ile	Ile	Gln	Phe	Phe	Phe	Ala	Cys	Thr	Phe	Val	Val
			100					105					110		
Thr	Glu	Thr	Tyr	Met	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala
		115					120					125			
Val	Cys	Asn	Pro	Leu	Leu	Tyr	Thr	Val	Ala	Met	Ser	Pro	Lys	Leu	Cys
	130					135					140				
Ser	Ile	Leu	Val	Gly	Ala	Ser	Tyr	Ser	Trp	Gly	Leu	Ile	Cys	Ser	Leu
145					150					155					160
Thr	Leu	Thr	Tyr	Phe	Leu	Leu	Arg	Leu	Ser	Phe	Gln	Gly	Ile	Asn	Ile
				165					170					175	
Ile	Asn	Asn	Phe	Val	Cys	Glu	His	Ala	Ala	Ile	Val	Ala	Val	Ser	Cys
			180					185					190		
Ser	Asp	Pro	Tyr	Ile	Ser	Gln	Glu	Ile	Ile	Phe	Val	Ser	Ala	Ser	Phe
		195					200					205			
Asn	Glu	Ile	Ser	Ser	Leu	Ile	Ile	Ile	Leu	Thr	Ser	Tyr	Val	Phe	Ile
	210					215					220				
Phe	Ile	Thr	Val	Met	Lys	Met	Ser	Ser	Ile	Gly	Gly	Arg	Ser	Lys	Ala
225					230					235					240
Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Ala	Ile	Ile	Ile	Phe	His	Gly
			245						250				255		
Thr	Ile	Leu	Phe	Leu	Tyr	Cys	Val	Pro	Asn	Thr	Lys	Ser	Ser	Trp	Leu
			260					265					270		
Met	Val	Lys	Val	Ala	Ser	Val	Phe	Tyr	Thr	Val	Phe	Ile	Pro	Met	Leu
		275					280					285			
Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Glu	Ser	Val
	290					295					300				
Arg	Lys	Leu	Val	Thr	Lys	Ser	Leu								
305					310										

<210> 2546

<211> 312

<212> PRT

<213> Mus musculus

<400> 2546

Met	Glu	Pro	Gly	Asn	Gln	Thr	Gly	Ala	Tyr	Tyr	Phe	Tyr	Leu	Thr	Glu
1				5					10					15	
Leu	Thr	Ser	Asp	Pro	Thr	Met	Glu	Leu	Leu	Ile	Phe	Ser	Leu	Phe	Leu
			20					25					30		
Phe	Ile	Tyr	Leu	Val	Thr	Ile	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Ile	Ala
		35					40					45			
Val	Ser	Ser	Asp	Ser	His	Leu	Gln	Thr	Pro	Met	Tyr	His	Phe	Leu	Ser
	50					55					60				

Lys	Leu	Ser	Phe	Ala	Asp	Ile	Cys	Leu	Ser	Thr	Thr	Thr	Ile	Pro	Asn
65					70					75					80
Met	Leu	Lys	Asn	Ile	His	Thr	Gln	Asp	Gln	Ser	Ile	Ser	Tyr	Thr	Gly
			85						90					95	
Cys	Leu	Ile	Gln	Ala	Cys	Phe	Val	Leu	Asn	Phe	Ala	Leu	Val	Glu	Ser
			100					105					110		
Cys	Ile	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	His
		115					120					125			
Pro	Leu	Asn	Tyr	Thr	Val	Ile	Met	Asn	Pro	His	Phe	Cys	Asp	Leu	Leu
	130					135					140				
Ile	Leu	Leu	Ser	Leu	Ile	Ile	Ser	Ile	Val	Asn	Ser	Leu	Leu	Gln	Cys
145					150					155					160
Leu	Met	Ile	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asn	Asn	Glu	Leu	Pro	Leu
				165					170					175	
Phe	Phe	Cys	Glu	Leu	Ala	Gln	Val	Ile	Lys	Leu	Ala	Cys	Ser	Asp	Thr
			180					185					190		
Leu	Ile	Asn	Tyr	Ile	Leu	Ile	Tyr	Leu	Ala	Thr	Phe	Ile	Phe	Gly	Gly
		195					200					205			
Ile	Pro	Ile	Phe	Gly	Ile	Ile	Phe	Ser	Tyr	Thr	Arg	Ile	Val	Ser	Ser
	210					215					220				
Ile	Leu	Lys	Ile	Ser	Ser	Leu	Arg	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Ala	Gly	Val
				245					250					255	
Gly	Val	Tyr	Ile	Ser	Ser	Ser	Ile	Ala	Val	Phe	Pro	Gln	Thr	Thr	Thr
			260					265					270		
Val	Ser	Tyr	Ile	Met	Tyr	Thr	Val	Leu	Pro	Gln	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Glu	Ala	Leu	Arg	Lys	Leu
	290					295					300				
Ile	Ala	Lys	Glu	Ser	Arg	Leu	Pro								
305					310										

<210> 2547

<211> 309

<212> PRT

<213> Mus musculus

<400> 2547

Val	Leu	Leu	Asn	His	Thr	Phe	Ile	Thr	Glu	Phe	Leu	Leu	Leu	Gly	Val
1				5					10					15	
Thr	Asp	Ile	Gln	Glu	Leu	Asn	Pro	Ile	Leu	Phe	Val	Met	Val	Leu	Ala
			20					25					30		
Met	Tyr	Phe	Ile	Asn	Val	Phe	Gly	Asn	Gly	Ala	Ile	Met	Met	Ile	Val
		35					40					45			
Ile	Leu	Asp	Ser	Arg	Leu	Tyr	Ser	Pro	Met	Tyr	Phe	Phe	Leu	Gly	Asn
		50				55				60					
Leu	Ala	Cys	Leu	Asp	Ile	Cys	Phe	Ser	Thr	Val	Thr	Val	Pro	Lys	Met
65				70					75					80	
Leu	Glu	Asn	Phe	Phe	Ser	Thr	Ser	Lys	Ala	Ile	Ser	Phe	Leu	Gly	Cys
			85					90						95	
Ile	Thr	Gln	Leu	His	Phe	Phe	His	Phe	Leu	Gly	Cys	Thr	Asp	Ala	Leu
		100						105					110		
Leu	Leu	Thr	Val	Met	Ala	Phe	Asp	Arg	Phe	Val	Ala	Ile	Cys	Arg	Pro
		115					120					125			
Leu	His	Tyr	Pro	Ser	Ile	Met	Asn	Arg	Gln	Val	Cys	Ile	Gln	Val	Ala

130		135		140
Ala Thr Ile Trp Ala Ile Pro Phe Leu His Ala Leu Val His Ser Ile				
145		150		155
Met Thr Ser Gln Leu Asn Phe Cys Gly Ser Asn Arg Ile His His Phe				160
	165		170	
Phe Cys Asp Val Lys Pro Leu Leu Glu Leu Ala Cys Gly Asn Thr Glu				175
	180		185	
Leu Asn Arg Trp Leu Leu Asn Thr Leu Ala Gly Thr Ile Gly Ile Gly				190
	195		200	
Leu Phe Phe Leu Thr Phe Leu Ser Tyr Phe Tyr Ile Val Thr Tyr Leu				205
	210		215	
Phe Leu Lys Thr His Ser Cys Ser Met Leu His Lys Ala Leu Ser Thr				220
225		230		235
Cys Ala Ser His Phe Met Val Val Met Ile Phe Tyr Ala Pro Val Leu				240
	245		250	
Phe Ile Tyr Ile Asn Pro Asp Ser Gly Ser Ser Leu Glu Lys Asp Arg				255
	260		265	
Ile Ile Ala Val Met Tyr Thr Val Val Thr Pro Ala Leu Asn Pro Leu				270
	275		280	
Ile Tyr Ala Leu Arg Asn Lys Glu Val Arg Cys Ala Leu Asn Arg Lys				285
	290		295	
Leu Arg Ile Leu Ile			300	
305				

<210> 2548

<211> 305

<212> PRT

<213> Mus musculus

<400> 2548

Met Arg Asn His Ser Ala Val His Glu Phe Val Leu Leu Gly Leu Ser				
1	5	10	15	
Thr Asp Pro His Ile Gln Pro Ala Leu Phe Val Leu Phe Leu Leu Val				
	20	25	30	
Tyr Leu Leu Thr Val Val Gly Asn Ser Leu Met Leu Leu Val Ile Val				
	35	40	45	
Ala Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Arg Gln Leu				
50	55	60		
Ser Phe Leu Asp Leu Cys His Ser Ser Val Thr Ala Pro Lys Met Leu				
65	70	75	80	
Glu Asn Leu Leu Ser Glu Glu Lys Thr Ile Leu Val Glu Ser Cys Leu				
	85	90	95	
Ala Gln Ala Phe Val Phe Ala Thr Gly Gly Thr Glu Ala Cys Leu				
	100	105	110	
Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Gly Ser Pro Leu				
	115	120	125	
Leu Tyr Ser Gln Val Met Ser Ser Gln Leu Cys Val Gly Leu Val Trp				
	130	135	140	
Leu Ser Trp Cys Leu Ala Val Val Asp Ala Leu Leu Asn Thr Leu Pro				
145	150	155	160	
Ala Val Ser Leu Asp Phe Cys Glu Asp Gln Thr Ile Ser His Phe Ser				
	165	170	175	
Cys Glu Leu Ser Ser Leu Phe Pro Leu Ser Cys Ser Asp Thr Ala Ala				
	180	185	190	
Asn Phe Thr Leu Leu Leu Cys Ser Ser Val Val His Phe Phe Gly Thr				
	195	200	205	

Leu	Val	Met	Ile	Val	Cys	Ser	Tyr	Gly	Arg	Ile	Val	Thr	Thr	Val	Leu
210						215					220				
Arg	Val	Ser	Ser	Ser	Thr	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys	Leu
225					230					235					240
Ser	His	Leu	Thr	Thr	Val	Ile	Leu	Phe	Tyr	Gly	Ser	Gly	Phe	Ile	Ser
				245					250					255	
Tyr	Leu	Leu	Pro	Ala	Ser	Gly	Ser	Pro	Leu	Glu	Lys	Val	Phe	Ser	Leu
			260					265					270		
Gln	Tyr	Ser	Val	Ile	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu
		275					280					285			
Lys	Asn	Lys	Glu	Val	Lys	Ala	Ala	Leu	Gly	Arg	Met	Ile	Arg	Lys	His
	290					295					300				
Phe															
305															

<210> 2549  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 2549

Met	Ala	Trp	Ser	Asn	His	Ser	Val	Ile	Thr	Glu	Phe	Val	Leu	Thr	Gly
1				5					10					15	
Leu	Ser	Asp	Asp	Pro	Leu	Ile	Gln	Ala	Leu	Leu	Phe	Ala	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Val	Leu	Thr	Met	Thr	Gly	Asn	Leu	Thr	Met	Leu	Leu	Val
			35				40					45			
Ile	Thr	Ala	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Val	Pro	Lys
65					70				75					80	
Leu	Leu	Lys	Asp	Leu	Leu	Ser	Ala	Lys	Lys	Thr	Ile	Ser	Val	Glu	Gly
				85					90					95	
Cys	Leu	Ala	Gln	Val	Phe	Phe	Val	Phe	Ile	Thr	Ala	Gly	Thr	Glu	Ala
			100					105					110		
Phe	Leu	Leu	Ser	Met	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Val	Cys	His
			115				120					125			
Pro	Leu	Leu	Tyr	Gly	Gln	Met	Met	Ser	Asn	Glu	Leu	Cys	Leu	Lys	Leu
	130					135					140				
Val	Leu	Leu	Ser	Trp	Gly	Leu	Ala	Ser	Leu	Ser	Ser	Val	Val	Ile	Val
145					150					155					160
Leu	Leu	Ala	Val	Asn	Leu	Asp	Phe	Cys	Glu	Ala	Tyr	Thr	Ile	His	His
				165					170					175	
Tyr	Thr	Cys	Glu	Leu	Pro	Ser	Leu	Phe	Pro	Leu	Ser	Cys	Ser	Asp	Ile
			180					185					190		
Ser	Ile	Asn	Val	Asp	Ile	Leu	Ile	Cys	Ser	Thr	Leu	Leu	His	Gly	Leu
		195					200					205			
Gly	Thr	Phe	Leu	Pro	Ile	Phe	Phe	Ser	Tyr	Ala	Arg	Ile	Val	Ser	Thr
	210					215					220				
Val	Leu	Ser	Met	Glu	Ser	Thr	Thr	Gly	Arg	Ser	Lys	Ala	Phe	Asn	Thr
225					230					235					240
Cys	Ser	Ser	His	Leu	Ile	Ala	Val	Val	Leu	Phe	Phe	Gly	Ser	Gly	Leu
				245					250					255	
Ile	Arg	Tyr	Leu	Met	Pro	Thr	Ser	Gly	Ser	Ser	Leu	Asp	Leu	Leu	Ser
			260					265				270			
Ser	Leu	Gln	Tyr	Ser	Ala	Val	Thr	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr

	275		280		285
Ser	Leu Lys Asn Gln Glu Val	Lys Ala Ala Val Arg	Arg Thr Leu Gly		
	290	295	300		
Lys	Cys Leu Arg Tyr Leu Glu				
305		310			

<210> 2550

<211> 316

<212> PRT

<213> Mus musculus

<400> 2550

Met	Asn	Met	Thr	Asn	Asn	Thr	Met	Val	Thr	Glu	Phe	Thr	Leu	Leu	Gly
1				5					10					15	
Ile	Pro	Glu	Thr	Glu	Gly	Leu	Glu	Asn	Val	Leu	Leu	Phe	Leu	Phe	Ser
			20					25					30		
Thr	Leu	Tyr	Ala	Cys	Ala	Leu	Leu	Gly	Asn	Leu	Leu	Leu	Leu	Thr	Ala
			35					40					45		
Val	Thr	Ser	Ser	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
						55					60				
Asn	Leu	Ser	Ile	Ser	Asp	Met	Gly	Phe	Cys	Ser	Thr	Thr	Ala	Pro	Lys
65					70					75					80
Met	Leu	Ser	Tyr	Leu	Ser	Gly	Arg	Gly	Gly	Gly	Ile	Ser	Phe	Gln	Gly
				85					90					95	
Cys	Val	Val	Gln	His	Phe	Phe	Tyr	His	Cys	Ile	Gly	Cys	Val	Leu	Cys
			100					105					110		
Phe	Leu	Tyr	Thr	Val	Met	Ala	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	Phe
			115				120					125			
Pro	Leu	Arg	Tyr	Thr	Ile	Ile	Met	Asn	His	Arg	Val	Cys	Cys	Val	Leu
			130			135					140				
Ala	Thr	Gly	Thr	Trp	Met	Ser	Gly	Cys	Val	His	Ala	Thr	Ile	Leu	Thr
145					150					155					160
Cys	Leu	Thr	Phe	Gln	Leu	Pro	Tyr	Cys	Gly	Pro	Ser	Glu	Val	Ser	Tyr
				165					170					175	
Tyr	Phe	Cys	Asp	Met	Pro	Ala	Val	Leu	Leu	Leu	Ala	Cys	Glu	Asp	Ser
			180				185						190		
Ser	Leu	Ala	Gln	Arg	Val	Gly	Phe	Thr	Asn	Val	Gly	Leu	Leu	Ser	Leu
		195				200					205				
Ile	Cys	Phe	Phe	Leu	Ile	Val	Val	Ser	Tyr	Thr	Arg	Ile	Gly	Ile	Ser
	210					215					220				
Ile	Ser	Lys	Ile	Arg	Ser	Thr	Glu	Gly	Arg	Gln	Arg	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ser	Ala	His	Leu	Thr	Ala	Ile	Met	Cys	Val	Tyr	Gly	Pro	Val	Ile
			245						250					255	
Val	Ile	Tyr	Leu	Gln	Pro	Asn	Pro	Ser	Pro	Leu	Leu	Ser	Ala	Ile	Ile
			260				265						270		
Gln	Ile	Phe	Asn	Asn	Leu	Val	Thr	Pro	Thr	Ile	Asn	Pro	Leu	Ile	Tyr
		275					280				285				
Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Ala	Ala	Leu	Arg	His	Val	Phe	Leu
	290					295					300				
Lys	Arg	Cys	Leu	Ser	Leu	Glu	Val	Asn	Glu	Asn	Ile				
305					310				315						

<210> 2551

<211> 315

<212> PRT

<213> Mus musculus

<400> 2551

```
Leu Ser Pro Glu Asn Ser Ser Thr Ile Thr Glu Leu Val Leu Val Gly
 1           5           10           15
Phe Ser Asp Gln Pro Gln Thr Glu Leu Pro Leu Phe Val Phe Phe Ser
 20           25           30
Leu Val Tyr Leu Ala Ser Cys Leu Gly Asn Thr Ala Val Val Ile Leu
 35           40           45
Val Ala Leu Asp Val Ser Leu Gln Thr Pro Met Tyr Phe Phe Leu Cys
 50           55           60
His Leu Ala Phe Leu Asn Gly Phe Phe Gly Thr Val Val Thr Pro Lys
 65           70           75           80
Met Leu Phe Asn Phe Leu Ala Ser Arg Lys Val Ile Ser Tyr Pro Phe
 85           90           95
Cys Leu Ala Gln Thr Tyr Leu Thr Leu Phe Leu Glu Ser Thr Glu Cys
100           105           110
Phe Leu Leu Ala Val Met Ala Ile Asp Arg Tyr Val Ala Ile Cys Tyr
115           120           125
Pro Leu Arg Tyr Leu Leu Ile Met Ser Trp Ala Val Cys Ile Ala Leu
130           135           140
Ala Val Ala Val Trp Val Thr Gly Phe Cys Ala Ser Val Leu Pro Leu
145           150           155           160
Cys Phe Met Ile Leu Pro Leu Cys Gly Pro Tyr Val Val Asp Tyr Leu
165           170           175
Phe Cys Glu Leu Pro Ile Leu Leu His Leu Phe Cys Ala Asp Thr Ser
180           185           190
Leu Gln Glu Ala Met Met Ala Val Gly Gly Ala Gly Thr Val Leu Val
195           200           205
Pro Phe Leu Leu Ile Ala Leu Ser Tyr Leu Arg Ile Leu Val Thr Val
210           215           220
Ile Arg Ile Asp Ser Ala Glu Gly Arg Lys Lys Ala Phe Ser Thr Cys
225           230           235           240
Ala Ser His Leu Ala Val Val Thr Ile Tyr Tyr Gly Thr Gly Leu Ile
245           250           255
Arg Tyr Leu Arg Pro Lys Ser Leu Tyr Ser Ala Glu Gly Asp Lys Leu
260           265           270
Ile Ser Val Phe Tyr Ala Val Ile Gly Pro Ala Leu Asn Pro Phe Ile
275           280           285
Tyr Ser Leu Arg Asn Lys Glu Val Gln Gly Ala Val Arg Arg Val Val
290           295           300
Glu Arg Tyr Arg Lys Ser Pro Arg Ile Ala Phe
305           310           315
```

<210> 2552

<211> 311

<212> PRT

<213> Mus musculus

<400> 2552

```
Met Gly Asn His Ser Thr Val Thr Thr Phe Leu Leu Trp Gly Phe Ser
 1           5           10           15
Ser Phe Pro Glu Leu His Asn Leu Leu Phe Val Val Ile Leu Leu Ser
 20           25           30
His Val Thr Ile Leu Leu Ala Asn Ala Ser Ile Met Val Ala Ile Lys
```

35	40	45
Leu Asn His Asn Leu His Thr Pro Met Tyr Phe Phe Leu Phe Ala Leu		
50	55	60
Ser Phe Ser Glu Thr Cys Thr Thr Met Val Ile Leu Pro Arg Met Leu		
65	70	75
Val Asp Leu Leu Ser Glu Ser Lys Ala Ile Ser Leu Pro Glu Cys Ala		80
	85	90
Thr Gln Met Phe Phe Phe Gly Leu Ala Ala Asn Asn Cys Phe Ile		95
	100	105
Met Ala Ala Met Ser Tyr Asp Arg Tyr Thr Ala Ile His Ser Pro Leu		110
	115	120
His Tyr His Ile Phe Met Thr Pro Lys Val Cys Ser Gln Leu Val Ile		125
	130	135
Ala Ser Cys Val Val Gly Phe Leu Cys Ser Leu Ser Ile Thr Phe Thr		140
145	150	155
Ile Phe Asn Leu Ser Phe Cys Asp Ser Lys Thr Ile Gln His Phe Phe		160
	165	170
Cys Asp Ile Ser Pro Leu Val His Leu Ala Cys Asp Tyr Thr Ala His		175
	180	185
His Ala Met Ile Ile Phe Met Val Ser Ala Phe Val Leu Val Gly Ser		190
	195	200
Phe Val Leu Ile Met Ile Ser Tyr Ala Phe Ile Val Phe Leu Val Val		205
	210	215
Lys Met Pro Ser Val Gln Gly Arg His Lys Ala Phe Ser Thr Cys Ser		220
225	230	235
Ser His Leu Thr Val Val Ser Met His Tyr Gly Phe Ala Cys Phe Val		240
	245	250
Tyr Leu Ile Pro Lys Asn Ser Asp Ser Phe Arg Glu Asp Met Leu Met		255
	260	265
Ala Val Thr Tyr Thr Val Leu Thr Pro Leu Leu Asn Pro Ile Val Tyr		270
	275	280
Ser Leu Arg Asn Lys Glu Met Gln Thr Ala Leu Arg Lys Val Leu Ser		285
	290	295
Ser Ile Asn Lys Met Leu Pro		300
305	310	

<210> 2553  
 <211> 323  
 <212> PRT  
 <213> Mus musculus

<400> 2553  
 Met Asp Asn Thr Asn Tyr Ser Val Val Ser Glu Phe Val Leu Leu Gly  
 1 5 10 15  
 Leu Ser Ser Ser Arg Glu Leu Gln Ile Phe Tyr Phe Val Phe Phe Ser  
 20 25 30  
 Met Leu Tyr Ile Val Ile Ile Leu Gly Asn Leu Leu Ile Ile Ile Ala  
 35 40 45  
 Val Thr Ser Asp Ser Ser Leu His Ser Pro Met Tyr Phe Leu Leu Gly  
 50 55 60  
 Asn Leu Ser Phe Phe Asp Ile Cys Gln Ala Ser Phe Ala Thr Pro Lys  
 65 70 75 80  
 Met Ile Val Asp Phe Leu Ser Glu His Lys Thr Ile Ser Phe Ser Gly  
 85 90 95  
 Cys Ile Ala Gln Ile Phe Phe Ile His Leu Phe Thr Gly Gly Glu Met  
 100 105 110



Val	Ile	Leu	Val	Ser	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115						120					125			
Pro	Leu	His	Tyr	Met	Thr	Ile	Met	Asn	Gln	Thr	Thr	Cys	Thr	Ala	Leu
	130					135					140				
Val	Val	Ile	Ser	Trp	Ala	Val	Gly	Leu	Val	His	Thr	Leu	Ser	Gln	Leu
145					150					155					160
Ser	Phe	Thr	Val	Lys	Leu	Ser	Phe	Cys	Gly	Pro	Asn	Glu	Val	Asp	Ser
			165						170					175	
Phe	Phe	Cys	Asp	Leu	Pro	Arg	Val	Val	Lys	Leu	Ala	Cys	Ile	Asp	Ser
		180						185					190		
Tyr	Ile	Thr	Glu	Ile	Leu	Ile	Val	Val	Asn	Ser	Gly	Ile	Leu	Ser	Leu
	195					200						205			
Ser	Thr	Phe	Ser	Leu	Leu	Val	Ser	Ser	Tyr	Val	Ile	Ile	Leu	Val	Thr
	210					215					220				
Val	Trp	Phe	Lys	Ser	Ser	Ala	Ala	Met	Ala	Lys	Ala	Phe	Ser	Thr	Leu
225					230					235					240
Ala	Ala	His	Ile	Met	Val	Val	Val	Leu	Phe	Phe	Gly	Pro	Cys	Ile	Phe
			245						250					255	
Ile	Tyr	Val	Trp	Pro	Phe	Thr	Thr	Tyr	Pro	Val	Asp	Lys	Ile	Leu	Ala
		260						265					270		
Ile	Phe	Tyr	Thr	Val	Phe	Thr	Pro	Ile	Leu	Asn	Pro	Ile	Ile	Tyr	Thr
	275						280					285			
Leu	Arg	Asn	Arg	Asp	Met	Lys	Ala	Val	Met	Gly	Lys	Ile	Ala	Ala	His
	290					295				300					
Tyr	Leu	Arg	Pro	Pro	Lys	Val	Ala	Glu	Met	Ser	Phe	Val	Ala	Arg	Ile
305					310					315					320
Ser	Leu	Tyr													

<210> 2554

<211> 321

<212> PRT

<213> Mus musculus

<400> 2554

Met	Ala	Thr	Ala	Val	His	Arg	Asn	Gly	Ser	Leu	Thr	Pro	Val	Ser	Leu
1				5					10					15	
Gln	Ala	Phe	Val	Leu	Val	Gly	Phe	Gly	Gly	Gly	Ala	Glu	Thr	Gln	Ala
			20				25					30			
Leu	Leu	Phe	Ala	Val	Phe	Leu	Val	Leu	Tyr	Met	Val	Thr	Val	Leu	Gly
		35				40						45			
Asn	Leu	Thr	Met	Ile	Val	Val	Ile	Thr	Leu	Asp	Ala	Arg	Leu	His	Ser
	50					55					60				
Pro	Met	Tyr	Phe	Phe	Leu	Lys	Asn	Leu	Ser	Phe	Val	Asp	Phe	Cys	Tyr
65					70					75				80	
Ser	Ser	Val	Ile	Ala	Pro	Lys	Ala	Met	Ala	Asn	Phe	Tyr	Ser	Ser	Lys
				85					90					95	
Val	Ile	Gly	Val	Ala	Gly	Cys	Ala	Ala	Gln	Leu	Phe	Phe	Phe	Ser	Phe
		100						105					110		
Leu	Gly	Thr	Ser	Glu	Ala	Leu	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg
		115					120					125			
Phe	Met	Ala	Ile	Cys	Ser	Pro	Leu	His	Tyr	Pro	Val	Thr	Met	Ser	Ser
	130					135					140				
Thr	Val	Cys	Ala	Cys	Leu	Val	Leu	Ala	Ala	Tyr	Phe	Gly	Gly	Cys	Leu
145					150					155					160
Asn	Ser	Ile	Val	Glu	Thr	Ser	Leu	Thr	Phe	Gln	Leu	Pro	Phe	Cys	Gly

				165					170					175			
Ser	Asn	His	Ile	Asp	His	Phe	Phe	Cys	Asp	Val	Pro	Pro	Leu	Leu	Gln		
			180					185					190				
Ile	Ala	Cys	Ala	Asn	Thr	Ser	Val	Asn	Glu	Leu	Val	Met	Phe	Ala	Ile		
		195					200					205					
Cys	Gly	Phe	Ile	Leu	Met	Gly	Ala	Thr	Leu	Val	Ile	Leu	Ile	Ser	Tyr		
	210					215					220						
Gly	Tyr	Ile	Thr	Val	Thr	Ile	Leu	Ser	Met	His	Ser	Gly	Ser	Arg	Arg		
225					230					235					240		
His	Lys	Val	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Ala	Val	Ser	Leu		
			245						250					255			
Phe	Tyr	Gly	Thr	Gly	Ile	Ala	Ile	Tyr	Gly	Gln	Pro	Gly	Gly	Leu	Ala		
		260						265					270				
Ser	Lys	Glu	Gln	Gly	Lys	Val	Val	Ser	Ile	Phe	Tyr	Thr	Leu	Val	Ile		
		275					280					285					
Pro	Leu	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys		
	290					295					300						
Asp	Ala	Leu	Glu	Arg	Leu	Arg	Gln	Arg	Gln	Arg	Gln	Lys	His	Ala	Ala		
305					310				315						320		
Ile																	

<210> 2555

<211> 319

<212> PRT

<213> Mus musculus

<400> 2555

Met	Ala	Thr	Ala	Val	His	Arg	Asn	Gly	Ser	Leu	Thr	Pro	Val	Ser	Leu		
1				5				10					15				
Arg	Val	Phe	Val	Leu	Val	Gly	Phe	Gly	Gly	Gly	Ala	Leu	Thr	Gln	Ala		
		20						25				30					
Leu	Leu	Phe	Ala	Val	Phe	Leu	Val	Leu	Tyr	Val	Val	Thr	Val	Leu	Gly		
		35					40					45					
Asn	Leu	Thr	Met	Ile	Val	Val	Ile	Thr	Leu	Asp	Ala	Arg	Leu	His	Ser		
50						55					60						
Pro	Met	Tyr	Phe	Phe	Leu	Lys	Asn	Leu	Ser	Phe	Val	Asp	Leu	Cys	Tyr		
65					70					75				80			
Ser	Ser	Ala	Ile	Ala	Pro	Asn	Ala	Leu	Ala	Asn	Phe	Leu	Ser	Thr	Ser		
			85						90					95			
Lys	Val	Ile	Ser	Phe	Glu	Ala	Cys	Ala	Thr	Gln	Phe	Phe	Phe	Phe	Ser		
		100						105					110				
Leu	Leu	Ala	Thr	Thr	Glu	Thr	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp		
		115					120					125					
Arg	Phe	Met	Ala	Ile	Cys	Ser	Pro	Leu	Arg	Tyr	Pro	Val	Thr	Met	Cys		
130						135					140						
Pro	Thr	Thr	Cys	Thr	Arg	Leu	Val	Leu	Gly	Thr	Phe	Cys	Val	Gly	Cys		
145					150					155					160		
Leu	Asn	Ser	Ile	Val	Gln	Thr	Ser	Leu	Thr	Phe	Gln	Leu	Pro	Phe	Cys		
			165						170					175			
Ser	Ser	Asn	Arg	Ile	Asp	His	Phe	Tyr	Cys	Asp	Val	Pro	Pro	Leu	Leu		
		180						185					190				
Gln	Leu	Ala	Cys	Ala	Ser	Thr	Ala	Leu	Asn	Glu	Leu	Phe	Leu	Phe	Gly		
		195					200					205					
Leu	Cys	Gly	Phe	Ile	Ile	Val	Ser	Thr	Thr	Leu	Ala	Val	Leu	Val	Ser		
	210					215						220					

Tyr	Gly	Tyr	Ile	Thr	Val	Thr	Ile	Leu	Arg	Met	His	Ser	Gly	Ser	Gly
225					230					235					240
Arg	His	Lys	Val	Phe	Ser	Thr	Cys	Gly	Ser	His	Leu	Thr	Ala	Val	Ser
				245					250						255
Leu	Phe	Tyr	Gly	Thr	Leu	Phe	Val	Met	Tyr	Ala	Gln	Pro	Gly	Ala	Leu
			260					265					270		
Thr	Ser	Met	Glu	Gln	Gly	Lys	Val	Val	Ser	Ile	Phe	Tyr	Thr	Leu	Val
		275					280						285		
Ile	Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val
	290					295					300				
Lys	Asp	Ala	Leu	Gln	Arg	Leu	Gly	Gln	Arg	His	Ser	Leu	Val	Lys	
305					310					315					

<210> 2556

<211> 313

<212> PRT

<213> Mus musculus

<400> 2556

Met	Gly	Thr	Val	Cys	Asn	Asp	Thr	His	Gly	Asp	Phe	Ile	Leu	Arg	Gly
1				5					10					15	
Phe	Ser	Asp	Lys	Pro	Tyr	Leu	Glu	Lys	Val	Leu	Phe	Gly	Val	Ile	Leu
			20					25					30		
Val	Phe	Tyr	Cys	Leu	Thr	Leu	Ala	Gly	Asn	Thr	Ile	Ile	Ile	Phe	Val
		35					40					45			
Ser	Leu	Lys	Asp	Pro	Lys	Leu	Gln	Ile	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55				60					
Asn	Leu	Ser	Leu	Leu	Asp	Ile	Cys	Phe	Thr	Ser	Ser	Cys	Val	Pro	Gln
65					70					75					80
Met	Leu	Val	Asn	Leu	Arg	Ser	Pro	Lys	Lys	Thr	Ile	Thr	Tyr	Ser	Gly
			85						90					95	
Cys	Ala	Thr	Gln	Leu	Tyr	Ile	Phe	Leu	Trp	Leu	Gly	Ala	Thr	Glu	Cys
			100					105					110		
Val	Leu	Leu	Val	Val	Met	Ala	Val	Asp	Arg	Tyr	Val	Ala	Val	Cys	His
			115				120					125			
Pro	Leu	Arg	Tyr	Val	Thr	Val	Met	His	Pro	Lys	Val	Cys	Leu	Gln	Leu
	130					135					140				
Ala	Val	Leu	Ala	Trp	Gly	Ser	Gly	Leu	Ile	Gln	Ser	Leu	Ile	Gln	Ser
145					150					155					160
Thr	Ala	Thr	Leu	Arg	Leu	Pro	Phe	Cys	Ser	Gln	Arg	Val	Val	Asp	Asn
			165						170					175	
Ile	Val	Cys	Glu	Val	Pro	Ala	Leu	Ile	Gln	Leu	Ser	Ser	Ala	Asp	Thr
			180					185					190		
Thr	Tyr	Asn	Glu	Val	Gln	Met	Ser	Ile	Ala	Ser	Val	Ile	Leu	Leu	Val
		195					200					205			
Leu	Pro	Leu	Ala	Ile	Ile	Leu	Ser	Ser	Tyr	Gly	Ala	Ile	Val	Lys	Ser
	210					215					220				
Val	Leu	Lys	Ile	Lys	Ser	Pro	Ala	Gly	Gln	Lys	Lys	Ala	Phe	Gly	Thr
225					230					235					240
Cys	Thr	Ser	His	Leu	Leu	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Val	Thr
			245						250					255	
Gly	Val	Tyr	Leu	Gln	Pro	Lys	Thr	His	Tyr	Ala	His	Glu	Trp	Gly	Lys
			260					265					270		
Phe	Leu	Thr	Leu	Phe	Tyr	Thr	Val	Ile	Thr	Pro	Thr	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Thr	Leu	Lys	Asn	Lys	Glu	Val	Lys	Glu	Ala	Val	Ile	Arg	Leu

290  
Trp Trp Lys Thr Trp Ile Ser Gln Arg  
305 310

300

<210> 2557  
<211> 312  
<212> PRT  
<213> Mus musculus

<400> 2557  
Met Ala Glu Glu Leu Trp Asn His Ser Ser Leu Ser Ser Phe Ile Leu  
1 5 10 15  
Ala Gly Leu Phe Gly His Ser Pro Tyr Asp Ser Phe Phe Phe Ser Leu  
20 25 30  
Val Leu Leu Ala Phe Gly Ala Ala Val Val Gly Asn Ile Leu Leu Leu  
35 40 45  
Met Val Ile Gln Val Asp Arg Arg Leu His Thr Pro Met Tyr Phe Phe  
50 55 60  
Leu Ser Gln Leu Ser Ile Met Asp Leu Thr Met Thr Cys Thr Val Val  
65 70 75 80  
Pro Lys Met Ala Thr Asn Phe Leu Ser Gly Gly Lys Leu Ile Ser Leu  
85 90 95  
Gly Gly Cys Ala Ser Gln Ile Phe Phe Val Val Thr Val Gly Gly Ala  
100 105 110  
Glu Cys Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Met Ala Val  
115 120 125  
Cys Tyr Pro Leu Arg Tyr Pro Val Leu Met Asn Trp Lys Ala Cys Ser  
130 135 140  
Phe Leu Ala Thr Ala Ser Trp Met Gly Gly Met Ala Asp Ser Val Ile  
145 150 155 160  
Asp Val Gly Val Val Phe Ser Phe Pro Tyr Cys Gly Ser Leu Glu Val  
165 170 175  
Asp His Phe Phe Cys Glu Val Pro Ala Leu Leu Arg Leu Ser Cys Ala  
180 185 190  
Asp Thr Ser Leu Phe Glu Asp Leu Ile Tyr Ala Cys Cys Val Val Met  
195 200 205  
Leu Leu Leu Pro Leu Gly Val Ile Val Ala Ser Tyr Ala Arg Val Leu  
210 215 220  
Thr Thr Val Met Arg Met Pro Ser Thr Glu Gly Lys Gln Lys Ala Leu  
225 230 235 240  
Thr Thr Cys Ser Ser His Leu Ala Val Val Gly Leu Tyr Tyr Gly Gly  
245 250 255  
Ala Ile Phe Ser Tyr Met Gln Arg Ala Ser Ala Arg Thr Pro Leu Gly  
260 265 270  
Asp Arg Ala Thr Ser Ile Phe Tyr Thr Ile Val Thr Pro Met Phe Asn  
275 280 285  
Pro Leu Ile Tyr Ser Leu Arg Asn Arg Glu Val Thr Ser Ala Leu Lys  
290 295 300  
Lys Met Leu Glu Arg Trp Gly Met  
305 310

<210> 2558  
<211> 309  
<212> PRT  
<213> Mus musculus

<400> 2558

Met Asp Ser Phe Asn Ala Thr Leu Glu Glu Arg Phe Phe Leu Val Gly  
1 5 10 15  
Phe Ser Asp Trp Pro Gln Leu Glu Leu Ile Leu Phe Val Phe Ile Ser  
20 25 30  
Ile Val Tyr Ser Leu Thr Ile Phe Gly Asn Thr Thr Ile Ile Ala Leu  
35 40 45  
Ser Arg Ile Asp Leu Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
50 55 60  
Asn Leu Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Thr Val Pro Gln  
65 70 75 80  
Leu Leu Ile Asn Leu Tyr Gly Gln Asp Arg Thr Ile Ser Tyr Gly Gly  
85 90 95  
Cys Val Ala Gln Leu Phe Ile Tyr Leu Ala Leu Gly Ser Thr Glu Cys  
100 105 110  
Val Leu Leu Val Val Met Ala Phe Asp Arg Tyr Ala Ala Val Cys Arg  
115 120 125  
Pro Leu His Tyr Thr Thr Ile Met His Pro Leu Leu Cys Gln Ala Leu  
130 135 140  
Ala Leu Ala Ser Trp Val Gly Gly Phe Leu Asn Ser Leu Ile Gln Thr  
145 150 155 160  
Gly Leu Met Met Thr Met Pro Leu Cys Gly His Arg Leu Asn His Phe  
165 170 175  
Phe Cys Glu Met Pro Val Phe Leu Lys Leu Ala Cys Gln Asp Thr Gly  
180 185 190  
Gly Thr Glu Ala Lys Met Phe Val Ala Arg Ala Ile Ile Leu Val Phe  
195 200 205  
Pro Ala Thr Leu Ile Leu Gly Ser Tyr Gly His Ile Ala Lys Ala Val  
210 215 220  
Leu Lys Val Lys Ser Thr Ala Gly Arg Arg Lys Ala Phe Gly Thr Cys  
225 230 235 240  
Gly Ser His Leu Leu Val Val Ser Leu Phe Tyr Gly Ser Ala Ile Tyr  
245 250 255  
Thr Tyr Leu Gln Pro Lys Ser Ser Tyr Ser Glu Ser Glu Gly Lys Phe  
260 265 270  
Val Ala Leu Phe Tyr Thr Ile Val Thr Pro Met Leu Asn Pro Leu Ile  
275 280 285  
Tyr Thr Leu Arg Asn Lys Asp Val Lys Gly Ala Leu Trp Lys Val Leu  
290 295 300  
Gly Arg Gly Thr Asp  
305

<210> 2559

<211> 320

<212> PRT

<213> Mus musculus

<400> 2559

Met Thr Pro Phe Glu Met Thr Asn His Thr Arg Val Thr Glu Phe Ile  
1 5 10 15  
Phe Leu Gly Phe Ser Asn His Pro Asn Leu Gln Gly Val Phe Phe Leu  
20 25 30  
Ala Phe Leu Ala Ile Tyr Leu Thr Thr Leu Leu Gly Asn Thr Leu Met  
35 40 45  
Ile Val Ala Thr Arg Val Ser Pro Ala Leu His Thr Pro Met Tyr Tyr

50		55		60											
Phe	Leu	Ser	Asn	Leu	Ser	Phe	Leu	Asp	Ile	Cys	Tyr	Thr	Ser	Thr	Ser
65					70					75					80
Ile	Pro	Val	Met	Leu	Val	Asn	Phe	Phe	Arg	Glu	Lys	Lys	Thr	Ile	Ser
				85					90					95	
Phe	Glu	Gly	Cys	Leu	Ser	Gln	Ile	Phe	Phe	Phe	Val	Ser	Cys	Ala	Gly
			100					105					110		
Thr	Glu	Cys	Val	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
		115					120					125			
Val	Cys	His	Pro	Leu	Arg	Tyr	Pro	Val	Leu	Met	Ser	Thr	Arg	Val	Cys
	130					135					140				
Ile	Ser	Leu	Val	Thr	Gly	Ser	Trp	Leu	Cys	Gly	Leu	Val	Asn	Ser	Val
145				150						155					160
Thr	His	Thr	Val	Leu	Thr	Ser	Thr	Leu	Thr	Leu	Cys	Gly	Pro	Asn	Gln
			165					170						175	
Ile	Ser	His	Phe	Leu	Cys	Asp	Val	Pro	Leu	Leu	Leu	Lys	Leu	Ser	Cys
			180				185						190		
Ser	Asp	Thr	Ser	Val	Asn	Glu	Ser	Val	Leu	His	Val	Ser	Ser	Ala	Thr
	195					200						205			
Val	Gly	Leu	Ser	Pro	Cys	Leu	Phe	Thr	Ala	Gly	Ser	Tyr	Ile	Leu	Ile
	210					215					220				
Ile	Ser	Ala	Ile	Leu	Arg	Ile	Pro	Ser	Thr	Gln	Gly	Lys	Arg	Lys	Ala
225				230						235					240
Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Val	Val	Phe	Phe	Gly
			245					250						255	
Thr	Ala	Asn	Phe	Asn	Tyr	Val	Arg	Pro	Lys	Glu	Gly	Tyr	Ser	Leu	Asp
		260					265						270		
Met	Gly	Ile	Leu	Val	Ser	Val	Leu	Tyr	Cys	Val	Val	Thr	Pro	Leu	Phe
	275					280						285			
Asn	Pro	Ile	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Leu
	290					295					300				
Arg	Lys	Leu	Thr	Gly	Val	Pro	Ser	Leu	Thr	Ile	Ala	Val	Ala	Arg	Glu
305				310						315					320

<210> 2560  
 <211> 322  
 <212> PRT  
 <213> Mus musculus

<400> 2560
Met Trp Ile Gln Leu Glu Phe Met Glu Asn His Lys Asn Ile Thr Glu
1 5 10 15
Phe Ile Phe Met Gly Leu Trp Glu Asn Arg Gln Ile Glu Leu Leu Phe
20 25 30
Phe Phe Leu Phe Leu Leu Cys Tyr Leu Ala Val Leu Met Gly Asn Ser
35 40 45
Val Ile Phe Leu Thr Ile Thr Cys Ser His Leu Ile Glu Gln Pro Met
50 55 60
Tyr Tyr Phe Leu Cys His Leu Ser Leu Met Asp Leu Cys Tyr Pro Ser
65 70 75 80
Thr Val Ile Pro Arg Leu Ile Arg Asp Leu Ala Ala Thr Arg Lys Asn
85 90 95
Ile Ser Tyr Asn Glu Cys Met Thr Gln Leu Phe Thr Ala His Leu Leu
100 105 110
Ala Gly Val Glu Ile Phe Ile Leu Val Ser Met Ala Leu Asp Arg Tyr
115 120 125

Val	Ala	Ile	Val	Lys	Pro	Leu	His	Tyr	Met	Val	Ile	Met	Ser	Arg	Lys
130						135				140					
Arg	Cys	Asp	Met	Leu	Ile	Val	Thr	Ala	Trp	Ile	Leu	Gly	Phe	Trp	His
145				150						155					160
Ser	Ile	Ala	Leu	Leu	Leu	Met	Val	Leu	Ser	Leu	Pro	Phe	Cys	Gly	Pro
			165						170					175	
Asn	His	Ile	Asn	His	Tyr	Phe	Cys	Asp	Ile	Lys	Pro	Leu	Leu	Lys	Leu
		180						185					190		
Val	Cys	Lys	Asp	Val	His	Val	Val	Ser	Ile	Leu	Ala	Ile	Val	Asn	Ser
	195					200						205			
Gly	Met	Val	Leu	Phe	Ala	Ile	Phe	Ile	Val	Leu	Leu	Ala	Ser	Tyr	Ile
	210					215						220			
Leu	Ile	Leu	Tyr	Ser	Leu	Arg	Thr	Arg	Ser	Ser	Ala	Gly	Lys	Trp	Lys
225					230				235						240
Val	Leu	Ser	Thr	Cys	Ser	Ser	His	Ile	Met	Val	Val	Val	Leu	Phe	Phe
				245					250					255	
Gly	Pro	Cys	Ile	Tyr	Thr	Tyr	Val	Leu	Pro	Ala	Gly	Ser	Glu	Asn	Lys
			260					265					270		
Asp	Lys	Glu	Ile	Ser	Val	Phe	Tyr	Thr	Val	Ile	Ala	Pro	Ile	Leu	Asn
	275						280					285			
Pro	Val	Ile	Tyr	Thr	Leu	Arg	Asn	Ser	Glu	Met	Lys	Ser	Ala	Met	His
	290					295					300				
Lys	Val	Trp	Ser	Arg	Leu	Ser	Asn	Leu	Gly	Leu	Lys	Tyr	Val	Lys	Pro
305					310				315						320
Ser	Cys														

<210> 2561

<211> 312

<212> PRT

<213> Mus musculus

<400> 2561

Met	Asp	Lys	Ala	Asn	His	Ser	Val	Val	Ser	Glu	Phe	Val	Phe	Leu	Gly
1				5					10					15	
Leu	Ser	Asn	Arg	Trp	Gly	Ile	Gln	Leu	Leu	Leu	Phe	Leu	Phe	Ser	Ser
			20					25					30		
Met	Phe	Tyr	Ile	Ala	Ser	Val	Met	Gly	Asn	Leu	Leu	Ile	Val	Phe	Ser
	35					40						45			
Val	Thr	Ala	Asp	Ser	Asn	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala
	50					55					60				
Asn	Leu	Ser	Phe	Leu	Asp	Leu	Gly	Val	Cys	Ser	Ile	Ala	Ala	Pro	Lys
65					70				75					80	
Met	Ile	Phe	Asp	Leu	Phe	Arg	Lys	His	Lys	Ala	Ile	Ser	Phe	Gly	Gly
			85						90					95	
Cys	Ile	Thr	Gln	Ile	Phe	Phe	Ile	His	Ala	Ile	Gly	Gly	Thr	Glu	Met
			100					105					110		
Val	Leu	Leu	Ile	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys
	115						120					125			
Pro	Leu	His	Tyr	Leu	Thr	Ile	Met	Arg	Pro	Gln	Ile	Cys	Ile	Leu	Ile
	130					135					140				
Leu	Ala	Val	Ser	Trp	Val	Leu	Gly	Leu	Ile	His	Ser	Val	Ala	Gln	Leu
145					150				155						160
Ala	Phe	Val	Val	Asp	Leu	Pro	Phe	Cys	Gly	Pro	Asn	Ile	Leu	Asp	Ser
			165						170					175	
Phe	Tyr	Cys	Asp	Leu	Pro	Gln	Leu	Ile	Lys	Leu	Ala	Cys	Thr	Glu	Thr





Thr	Pro	Phe	Leu	Asn	Pro	Val	Ile	Tyr	Thr	Phe	Arg	Asn	Gln	Glu	Met
			260					265					270		
Lys	Met	Ala	Met	Met	Arg	Val	Leu	Arg	Gln	Ile	Met	Gly	Tyr	Arg	Gln
		275					280					285			
Ile	Ile	Lys	His	Leu	His	Pro	Asp	Gln	Ser						
	290					295									

<210> 2563

<211> 290

<212> PRT

<213> Mus musculus

<400> 2563

Asn	Ile	Gln	Leu	Leu	Leu	Phe	Leu	Leu	Ser	Ser	Val	Leu	Tyr	Val	Ala
1				5					10					15	
Ser	Met	Met	Gly	Asn	Cys	Leu	Ile	Ile	Phe	Thr	Val	Ala	Ser	Asp	Pro
			20					25					30		
Gln	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ser	Asn	Leu	Ser	Phe	Ile
		35					40					45			
Asp	Ile	Gly	Ile	Ser	Ser	Ala	Thr	Ser	Pro	Lys	Met	Ile	Tyr	Asp	Leu
	50					55				60					
Phe	Lys	Lys	Asn	Lys	Val	Ile	Ser	Phe	Arg	Gly	Cys	Ile	Ile	Gln	Ile
65					70					75				80	
Phe	Phe	Ile	His	Ala	Ile	Gly	Gly	Val	Glu	Met	Val	Leu	Leu	Ile	Ala
				85					90					95	
Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Lys	Pro	Leu	His	Tyr	Leu
			100					105					110		
Thr	Met	Met	Ser	Pro	Gln	Met	Cys	Ile	Phe	Phe	Leu	Ile	Thr	Ala	Trp
		115					120					125			
Val	Val	Gly	Leu	Met	His	Ser	Val	Ile	Gln	Leu	Val	Phe	Ile	Val	Asn
	130					135					140				
Leu	Pro	Leu	Cys	Gly	Gln	Leu	Leu	Asp	Ser	Phe	Tyr	Cys	Asp	Leu	Pro
145					150					155				160	
Gln	Phe	Ile	Lys	Leu	Ala	Cys	Met	Asp	Thr	Tyr	Arg	Leu	Glu	Leu	Met
				165					170					175	
Val	Ser	Ile	Ser	Ser	Gly	Phe	Met	Ser	Val	Ala	Phe	Phe	Phe	Ile	Leu
			180				185						190		
Ile	Ile	Ser	Tyr	Val	Val	Ile	Ile	Phe	Thr	Val	Leu	Lys	His	Ser	Ser
		195					200					205			
Ser	Gly	Ser	Tyr	Lys	Ala	Leu	Ser	Thr	Leu	Ser	Ala	His	Val	Thr	Val
	210					215					220				
Val	Val	Leu	Phe	Phe	Gly	Pro	Ala	Ile	Phe	Phe	Tyr	Thr	Trp	Pro	Ser
225					230					235				240	
Ser	Ser	Thr	His	Leu	Asp	Lys	Phe	Leu	Ala	Leu	Phe	Asp	Ala	Val	Val
				245					250					255	
Thr	Pro	Phe	Leu	Asn	Pro	Val	Ile	Tyr	Thr	Leu	Arg	Asn	Gln	Glu	Met
			260					265					270		
Lys	Met	Ala	Met	Arg	Arg	Val	Phe	Arg	His	Leu	Met	Gly	Tyr	Arg	Gln
		275					280					285			
Ile	Ser														
	290														

<210> 2564

<211> 310

<212> PRT

<213> Mus musculus

<400> 2564

Met	Thr	Glu	Asn	Gln	Thr	Trp	Ile	Pro	Glu	Phe	Thr	Leu	Gln	Gly	Phe
1				5					10					15	
Leu	Leu	Ser	Pro	Arg	Met	Gln	Met	Leu	Leu	Cys	Gly	Leu	Phe	Ser	Leu
			20					25					30		
Leu	Tyr	Thr	Phe	Thr	Leu	Leu	Gly	Asn	Gly	Val	Ile	Leu	Gly	Leu	Ile
		35					40					45			
Trp	Leu	Asp	Cys	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	His
		50				55					60				
Leu	Ala	Ile	Val	Asp	Ile	Ser	Tyr	Ala	Thr	Asn	Asn	Val	Pro	Lys	Met
65					70					75					80
Leu	Ala	Asn	Leu	Leu	Ala	Lys	Lys	Lys	Ser	Ile	Ser	Phe	Ala	Pro	Cys
				85					90					95	
Ile	Met	Gln	Thr	Phe	Leu	Tyr	Met	Ala	Phe	Ala	His	Thr	Glu	Cys	Leu
			100					105					110		
Ile	Leu	Val	Met	Met	Ser	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Gln	Pro
		115					120					125			
Leu	Gln	Tyr	Ser	Val	Ile	Met	Ser	Trp	Lys	Val	Cys	Thr	Ile	Met	Ala
		130				135					140				
Val	Ala	Ser	Trp	Ala	Cys	Gly	Ser	Leu	Leu	Ala	Leu	Val	His	Val	Val
145					150					155					160
Leu	Ile	Leu	Arg	Leu	Pro	Phe	Cys	Gly	Leu	His	Glu	Ile	Asn	His	Phe
				165					170					175	
Phe	Cys	Glu	Ile	Leu	Ser	Val	Leu	Lys	Leu	Val	Cys	Ala	Asp	Thr	Thr
			180					185					190		
Leu	Asn	Gln	Ile	Val	Ile	Phe	Ala	Gly	Ser	Val	Phe	Ile	Leu	Val	Gly
		195					200					205			
Pro	Leu	Cys	Phe	Val	Leu	Val	Ser	Tyr	Thr	Arg	Ile	Leu	Ile	Ala	Ile
		210				215					220				
Leu	Lys	Ile	Gln	Ser	Gly	Glu	Gly	Arg	Arg	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Ser	Ser	His	Leu	Cys	Val	Val	Gly	Leu	Phe	Phe	Gly	Ser	Ala	Ile	Val
				245					250					255	
Met	Tyr	Met	Ala	Pro	Lys	Ser	Gln	His	Pro	Glu	Thr	Gln	Gln	Lys	Val
			260				265						270		
Leu	Ser	Leu	Phe	Tyr	Ser	Leu	Phe	Asn	Pro	Met	Leu	Asn	Pro	Leu	Ile
		275					280					285			
Tyr	Ser	Leu	Arg	Asn	Ala	Glu	Val	Lys	Gly	Ala	Val	Lys	Arg	Val	Leu
		290				295					300				
Trp	Lys	Gln	Arg	Ser	Arg										
305					310										

<210> 2565

<211> 308

<212> PRT

<213> Mus musculus

<400> 2565

Met	Ala	Thr	Gly	Asn	His	Ser	Ala	Ala	Val	Val	Phe	Val	Leu	Val	Gly
1				5					10					15	
Leu	Thr	Gln	Gln	Pro	Glu	Leu	Leu	Leu	Pro	Leu	Phe	Ile	Leu	Phe	Leu
			20					25					30		
Gly	Ile	Tyr	Val	Val	Thr	Ala	Val	Gly	Asn	Leu	Gly	Met	Ile	Leu	Leu
		35					40					45			

Ile	Thr	Val	Ser	Pro	Leu	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Ser	50	55	60
Ser	Leu	Ser	Phe	Val	Asp	Leu	Ser	Tyr	Ser	Thr	Val	Ile	Thr	Pro	Lys	65	70	75
Met	Leu	Val	Asn	Phe	Leu	Gly	Lys	Lys	Asn	Phe	Ile	Thr	Tyr	Ser	Glu	85	90	95
Cys	Met	Ala	Gln	Phe	Phe	Phe	Phe	Ala	Val	Phe	Val	Val	Thr	Glu	Gly	100	105	110
Tyr	Leu	Leu	Thr	Val	Met	Ala	Tyr	Asp	His	Tyr	Val	Ala	Ile	Cys	Arg	115	120	125
Pro	Leu	Leu	Tyr	Asn	Val	Met	Met	Ser	Ser	Lys	His	Cys	Leu	Leu	Leu	130	135	140
Val	Leu	Val	Ala	Phe	Thr	Leu	Gly	Leu	Phe	Ser	Ala	Val	Val	His	Thr	145	150	155
Ser	Ala	Met	Met	Ser	Leu	Asn	Phe	Cys	Lys	Thr	Tyr	Ile	Ile	Ser	His	165	170	175
Tyr	Phe	Cys	Asp	Ala	Leu	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asn	Thr	180	185	190
His	Leu	Asn	Glu	Leu	Leu	Ile	Phe	Ile	Ile	Gly	Gly	Ile	Asn	Thr	Leu	195	200	205
Val	Pro	Thr	Leu	Ala	Val	Ala	Ile	Ser	Tyr	Val	Phe	Ile	Phe	Cys	Ser	210	215	220
Ile	Arg	His	Ile	Lys	Ser	Ser	Lys	Ser	Arg	Ser	Lys	Ala	Phe	Gly	Thr	225	230	235
Cys	Ser	Ser	His	Leu	Met	Ala	Val	Gly	Ile	Phe	Phe	Gly	Ser	Ile	Thr	245	250	255
Phe	Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ser	Asn	Ser	Leu	Glu	Gln	Glu	Lys	260	265	270
Val	Ser	Ser	Val	Phe	Tyr	Thr	Thr	Val	Ile	Pro	Met	Leu	Asn	Pro	Leu	275	280	285
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Lys	Ala	Leu	Gly	Arg	Phe	290	295	300
Ser	Val	Arg	Arg													305		

<210> 2566

<211> 318

<212> PRT

<213> Mus musculus

<400> 2566

Met	Arg	Arg	Asn	Arg	Asn	Thr	Ser	Leu	Asp	Asp	Val	Val	Thr	Asp	Phe	1	5	10	15
Leu	Leu	Leu	Gly	Leu	Ala	His	Pro	Pro	Asn	Leu	Arg	Ala	Phe	Leu	Phe	20	25	30	
Leu	Val	Phe	Phe	Leu	Ile	Tyr	Ile	Leu	Thr	Gln	Leu	Gly	Asn	Leu	Leu	35	40	45	
Ile	Leu	Leu	Thr	Val	Trp	Ala	Asp	Pro	Lys	Leu	His	Ala	Arg	Pro	Met	50	55	60	
Tyr	Ile	Leu	Leu	Gly	Val	Leu	Ser	Phe	Leu	Asp	Met	Trp	Leu	Ser	Ser	65	70	75	80
Val	Ile	Val	Pro	Arg	Ile	Ile	Leu	Asn	Phe	Thr	Pro	Ala	Ser	Lys	Val	85	90	95	
Ile	Ala	Phe	Gly	Gly	Cys	Ala	Ala	Gln	Leu	Tyr	Phe	Phe	His	Phe	Leu	100	105	110	
Gly	Ser	Thr	Gln	Cys	Phe	Leu	Tyr	Thr	Leu	Met	Ala	Tyr	Asp	Arg	Tyr				

115	120	125
Leu Ala Ile Cys Gln Pro	Leu Arg Tyr Pro Val	Leu Met Asn Gly Lys
130	135	140
Leu Cys Thr Ile Leu Val	Ser Gly Ala Trp Val	Ala Gly Ser Ile His
145	150	155
Gly Ser Ile Gln Ala Thr	Leu Thr Phe Arg Leu	Pro Tyr Cys Gly Pro
165	170	175
Lys Glu Val Asp Tyr Phe	Phe Cys Asp Ile Pro	Ala Val Leu Arg Leu
180	185	190
Ala Cys Ala Asp Thr Thr	Val Asn Glu Leu Val	Thr Phe Val Asp Ile
195	200	205
Gly Val Val Ala Ala Ser	Cys Phe Met Leu Ile	Leu Leu Ser Tyr Ala
210	215	220
Asn Ile Val His Ala Ile	Leu Lys Ile Arg Thr	Ala Asp Gly Arg Lys
225	230	235
Arg Ala Phe Ser Thr Cys	Gly Ser His Leu Thr	Val Val Thr Val Tyr
245	250	255
Tyr Val Pro Cys Ile Phe	Ile Tyr Leu Arg Ala	Gly Ser Lys Ser Pro
260	265	270
Phe Asp Gly Ala Val Ala	Val Phe Tyr Thr Val	Val Thr Pro Leu Leu
275	280	285
Asn Pro Leu Ile Tyr Thr	Leu Arg Asn Gln Glu	Val Lys Ser Ala Leu
290	295	300
Lys Arg Leu Arg Ala Gly	Arg Arg Asp Val Asp	Gly Glu Lys
305	310	315

<210> 2567

<211> 311

<212> PRT

<213> Mus musculus

<400> 2567

Met Glu Lys Asn Asn Glu Ser Ser Gly Glu Phe Ile Leu Leu Gly Phe	
1 5 10 15	
Ser Asp Gln Pro Arg Leu Glu Met Val Leu Phe Val Val Cys Thr Val	
20 25 30	
Phe Tyr Phe Leu Ala Val Thr Gly Asn Ser Ala Ile Ile Phe Leu Ser	
35 40 45	
Leu Met Asp Leu Arg Leu His Thr Pro Met Tyr Phe Phe Leu Ser Asn	
50 55 60	
Leu Ser Leu Leu Asp Leu Cys Tyr Ser Thr Ser Ile Pro Gln Phe	
65 70 75 80	
Gln Ile Asn Leu Trp Gly Pro Arg Lys Thr Ile Ser Phe Val Gly Cys	
85 90 95	
Ala Val Gln Leu Phe Ala Phe Leu Ser Val Gly Gly Ile Glu Cys Ile	
100 105 110	
Leu Leu Ser Val Met Ala Tyr Asp Arg Phe Val Ala Val Cys Lys Pro	
115 120 125	
Leu His Tyr Leu Thr Ile Met His Pro Gln Leu Cys Leu Lys Leu Ala	
130 135 140	
Ala Phe Ala Trp Leu Gly Gly Thr Ala Ser Ser Thr Leu Met Ser Pro	
145 150 155 160	
Leu Thr Met Ser Leu Gly Arg Cys Gly His Arg Arg Ile Asn His Phe	
165 170 175	
Val Cys Glu Met Pro Ala Ile Ile His Ile Ser Cys Val Asp Thr Ser	
180 185 190	

Trp	Ile	Glu	Gly	Leu	Ile	Phe	Ile	Leu	Ala	Ile	Pro	Ile	Val	Leu	Val
	195						200					205			
Pro	Leu	Ile	Met	Ile	Leu	Val	Ser	Tyr	Gly	Tyr	Ile	Ala	Ala	Ala	Val
	210					215					220				
Leu	Arg	Ile	Lys	Ser	Thr	Ala	Ser	Arg	Arg	Lys	Ala	Phe	Asn	Thr	Cys
225					230					235					240
Ser	Ser	His	Met	Ala	Val	Val	Ser	Leu	Phe	Tyr	Ser	Ser	Ile	Ile	Tyr
			245						250					255	
Met	Tyr	Met	Gln	Pro	Gly	Asn	Leu	Ala	Ser	Gln	Asp	Gln	Gly	Lys	Phe
		260						265					270		
Leu	Thr	Leu	Phe	Tyr	Cys	Leu	Val	Thr	Pro	Thr	Leu	Asn	Pro	Phe	Ile
	275						280					285			
Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Ala	Ala	Met	Leu	Lys	Val	Leu
	290					295					300				
Gly	Lys	Asp	Arg	Asn	Leu	Leu									
305					310										

<210> 2568  
 <211> 309  
 <212> PRT  
 <213> Mus musculus

<400> 2568

Met	Ala	Leu	Ala	Asn	Val	Ser	Ser	Val	Lys	Glu	Phe	Ile	Leu	Leu	Gly
1				5					10					15	
Leu	Thr	Gln	Gln	Pro	Glu	Leu	Gln	Leu	Pro	Leu	Phe	Phe	Leu	Phe	Leu
		20					25						30		
Gly	Ile	Tyr	Val	Val	Ser	Val	Met	Gly	Asn	Leu	Gly	Leu	Ile	Val	Leu
	35					40					45				
Ile	Val	Leu	Asn	Pro	His	Leu	His	Thr	Pro	Met	Tyr	Tyr	Phe	Leu	Phe
	50					55				60					
Asn	Leu	Ser	Phe	Thr	Asp	Leu	Cys	Tyr	Ser	Ser	Ala	Ile	Thr	Pro	Arg
65				70					75					80	
Met	Leu	Val	Gly	Phe	Val	Lys	Gln	Asn	Ile	Ile	Ser	His	Ala	Glu	Cys
			85					90					95		
Leu	Thr	Gln	Leu	Phe	Phe	Phe	Ala	Phe	Phe	Val	Ile	Asp	Glu	Cys	Tyr
		100					105					110			
Ile	Leu	Thr	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Ala	Ala	Ile	Cys	Lys	Pro
	115					120						125			
Leu	Leu	Tyr	Gln	Val	Thr	Met	Ser	His	Gln	Val	Cys	Leu	Leu	Met	Thr
	130					135					140				
Met	Gly	Val	Tyr	Val	Met	Gly	Phe	Ala	Gly	Ala	Leu	Ser	His	Ile	Val
145				150					155						160
Cys	Met	Leu	Arg	Leu	Thr	Phe	Cys	Asp	Gly	Asn	Ile	Ile	Asn	Asn	Tyr
			165						170				175		
Val	Cys	Asp	Val	His	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Ser	Thr	Ser
		180						185					190		
Ile	Asn	Glu	Leu	Val	Leu	Phe	Ile	Val	Val	Gly	Val	Asn	Ile	Thr	Val
	195						200					205			
Pro	Ser	Leu	Thr	Leu	Phe	Val	Ser	Tyr	Thr	Leu	Ile	Leu	Ser	Asn	Ile
	210					215					220				
Leu	Ser	Ile	His	Ser	Gly	Glu	Gly	Arg	Ser	Lys	Ala	Phe	Ser	Thr	Cys
225					230					235					240
Gly	Ser	His	Val	Ile	Ala	Val	Ser	Phe	Phe	Phe	Gly	Ala	Ala	Ala	Phe
			245						250					255	
Met	Tyr	Leu	Lys	Pro	Ser	Ser	Ala	Ser	Val	Asp	Glu	Asp	Lys	Val	Ser



<210> 2570  
 <211> 322  
 <212> PRT  
 <213> Mus musculus

<400> 2570  
 Met Ala Pro Glu Asn Gln Thr Thr Val Leu Glu Phe His Leu Met Gly  
 1 5 10 15  
 Leu Ser Glu Asp Pro Asp Leu Gln Thr Ile Leu Phe Gly Leu Phe Leu  
 20 25 30  
 Ser Met Tyr Leu Val Thr Val Phe Gly Asn Leu Leu Ile Ile Leu Ala  
 35 40 45  
 Ile Ile Ser Asp Ser His Leu His Thr Pro Met Tyr Phe Phe Leu Cys  
 50 55 60  
 Asn Leu Ser Leu Val Asp Ile Phe Phe Cys Ser Thr Thr Val Pro Lys  
 65 70 75 80  
 Met Leu Val Asn Ile Gln Thr Gln Ser Arg Ala Ile Ser Phe Thr Gly  
 85 90 95  
 Cys Leu Val Gln Met Tyr Ala Phe His Leu Phe Gly Thr Ile Asp Ser  
 100 105 110  
 Phe Leu Leu Ala Val Met Ala Ile Asp Arg Leu Val Ala Ile Ala Tyr  
 115 120 125  
 Pro Leu Arg Tyr Ser Val Leu Met Ser Pro His Val Cys Ala Leu Leu  
 130 135 140  
 Val Gly Gly Thr Trp Val Ile Thr Asn Leu Gln Ser Leu Val His Thr  
 145 150 155 160  
 Cys Leu Met Ala Gln Leu Thr Phe Cys Ala Arg Ser Glu Ile Pro His  
 165 170 175  
 Phe Phe Cys Asp Leu Met Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr  
 180 185 190  
 His Ile Asn Glu Leu Val Ile Phe Ala Phe Gly Ile Val Met Gly Leu  
 195 200 205  
 Ser Pro Leu Ser Cys Ile Leu Val Ser Tyr Ile Cys Ile Phe Arg Ala  
 210 215 220  
 Val Phe Arg Ile Pro Ser Ala Gln Gly Lys Trp Lys Ala Phe Ser Thr  
 225 230 235 240  
 Cys Gly Ser His Leu Thr Val Val Ser Leu Phe Tyr Gly Thr Ile Phe  
 245 250 255  
 Thr Gly Tyr Leu Leu Pro Ala Ser Pro Ser Ser Ser Gln Lys Asp Lys  
 260 265 270  
 Ala Ala Ala Leu Met Phe Gly Val Val Ile Pro Thr Leu Asn Pro Phe  
 275 280 285  
 Ile Tyr Ser Leu Arg Asn Lys Asp Met Lys Ala Ala Leu Gly Ser Leu  
 290 295 300  
 Ala Ala Lys Gln Ser His Ser Ser Pro Ser Ala Glu Gln Glu Leu Cys  
 305 310 315 320  
 Gly His

<210> 2571  
 <211> 321  
 <212> PRT  
 <213> Mus musculus

<400> 2571

Met	Gly	Pro	Gly	Thr	Leu	Asn	Asp	Ser	Gly	Thr	Thr	Glu	Phe	Leu	Leu
1				5					10					15	
Leu	Gly	Leu	Trp	Ala	Pro	Pro	Ser	Leu	Arg	Pro	Leu	Leu	Trp	Ala	Ser
			20					25					30		
Leu	Leu	Leu	Ala	Tyr	Leu	Thr	Thr	Val	Leu	Gly	Asn	Gly	Ala	Leu	Val
		35					40					45			
Gly	Leu	Ile	Ala	Leu	Asp	Arg	Arg	Leu	His	Arg	Pro	Met	Tyr	Arg	Leu
	50					55					60				
Leu	Thr	His	Leu	Ala	Leu	Leu	Asp	Thr	Ala	Tyr	Val	Ser	Thr	Thr	Leu
65					70					75					80
Pro	Gln	Ala	Leu	Ala	His	Met	Thr	Met	Arg	Ser	Ala	Arg	Leu	Ser	Leu
				85					90					95	
Val	Arg	Cys	Gly	Thr	Gln	Leu	Tyr	Val	Gly	Ile	Ser	Leu	Gly	Ser	Cys
			100					105					110		
Glu	Ala	Ile	Leu	Leu	Ala	Ala	Met	Ala	Leu	Asp	Arg	Cys	Leu	Ala	Val
		115					120					125			
Cys	Arg	Pro	Leu	His	Tyr	Ala	Thr	Leu	Val	Thr	Ala	Pro	Arg	Cys	Ala
	130					135					140				
Ala	Leu	Ala	Gly	Ala	Ser	Trp	Thr	Leu	Gly	Phe	Ala	Leu	Ser	Val	Pro
145					150					155					160
Asn	Ala	Val	Ala	Ala	Leu	Arg	Leu	Pro	Phe	Cys	Pro	Gly	Arg	Ala	Ala
			165						170					175	
Val	Asp	His	Phe	Phe	Cys	Glu	Leu	Pro	Ala	Val	Leu	Arg	Thr	Ala	Cys
		180						185					190		
Ala	Asp	Thr	Thr	Ala	Asn	Tyr	Arg	Leu	Val	Tyr	Gly	Leu	Gly	Val	Pro
		195					200					205			
Ile	Leu	Leu	Val	Pro	Leu	Val	Leu	Ile	Leu	Ala	Ser	Tyr	Thr	Trp	Ile
	210					215					220				
Leu	Ala	Ala	Val	Arg	Lys	Leu	Pro	Ser	Ala	Gly	Ser	Arg	His	Lys	Ala
225					230					235					240
Leu	Ser	Thr	Cys	Ser	Ser	His	Leu	Ala	Val	Val	Gly	Leu	Phe	Tyr	Gly
			245						250					255	
Thr	Val	Ser	Ala	Met	Tyr	Leu	Arg	Pro	Lys	Ala	Ser	Ser	Asp	Leu	Pro
		260						265					270		
Ala	Arg	His	His	Lys	Leu	Val	Ala	Val	Phe	Tyr	Leu	Val	Val	Thr	Pro
		275					280					285			
Val	Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Glu	Val	His	Met
	290					295					300				
Ala	Ala	Arg	Tyr	Ala	Leu	Ala	Arg	Leu	Arg	Gly	Thr	Arg	Ile	Val	Leu
305					310					315					320

His

<210> 2572

<211> 314

<212> PRT

<213> Mus musculus

<400> 2572

Met	Glu	Cys	Val	Asn	Asp	Thr	Val	Val	Arg	Glu	Phe	Val	Phe	Leu	Gly
1				5					10					15	
Phe	Ser	Ser	Leu	Ala	Glu	Leu	Gln	Leu	Leu	Leu	Phe	Ala	Val	Phe	Leu
			20					25					30		
Ser	Leu	Tyr	Leu	Phe	Thr	Leu	Ser	Thr	Asn	Ala	Val	Ile	Val	Ser	Thr
		35					40					45			



Ile	Val	Leu	Asp	Arg	Ala	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
50						55					60				
Val	Leu	Ser	Cys	Ser	Glu	Thr	Cys	Tyr	Thr	Phe	Val	Ile	Val	Pro	Lys
65					70					75					80
Met	Leu	Val	Asp	Leu	Leu	Ala	Arg	Lys	Lys	Ser	Ile	Ser	Phe	Leu	Gly
			85						90					95	
Cys	Ala	Ile	Gln	Met	Phe	Thr	Phe	Leu	Phe	Leu	Gly	Cys	Ser	His	Ser
			100						105					110	
Phe	Leu	Leu	Ala	Ala	Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His
		115					120						125		
Pro	Leu	Arg	Tyr	Thr	Val	Leu	Met	Gly	His	Arg	Val	Cys	Val	Gly	Leu
		130					135					140			
Val	Ala	Ala	Ala	Cys	Val	Cys	Gly	Phe	Thr	Val	Ala	Gln	Val	Ile	Thr
145						150				155					160
Ser	Gln	Val	Phe	Arg	Leu	Pro	Phe	Arg	Ser	Ser	Asn	Gln	Leu	His	His
				165					170					175	
Phe	Phe	Cys	Asp	Ile	Ser	Pro	Val	Leu	Gln	Leu	Ala	Ser	His	His	Pro
			180						185					190	
His	Ser	Thr	Gln	Ile	Thr	Ile	Phe	Leu	Leu	Cys	Ala	Leu	Val	Leu	Val
		195					200						205		
Ile	Pro	Leu	Leu	Leu	Ile	Leu	Val	Ser	Tyr	Ile	His	Ile	Ile	Ser	Ala
	210						215								
Ile	Leu	Gln	Phe	Pro	Ser	Thr	Leu	Gly	Arg	Tyr	Lys	Ala	Phe	Ser	Thr
225					230					235					240
Cys	Ala	Ser	His	Leu	Ile	Val	Val	Ile	Val	His	Tyr	Gly	Cys	Ala	Ser
				245						250				255	
Phe	Ile	Tyr	Leu	Arg	Pro	Lys	Ser	Ser	Tyr	Ser	Ser	Ser	Gln	Asp	Ala
			260						265					270	
Leu	Ile	Ser	Val	Ser	Tyr	Thr	Ile	Leu	Thr	Pro	Leu	Phe	Asn	Pro	Val
		275					280						285		
Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Phe	Lys	Ser	Ala	Leu	His	Arg	Val
	290					295					300				
Ile	Gly	Arg	Thr	Val	Thr	Leu	Arg	Gln	His						
305						310									

<210> 2573

<211> 231

<212> PRT

<213> Mus musculus

<400> 2573

Ser	Val	Thr	Pro	Lys	Met	Leu	Met	Lys	Phe	Leu	Asn	Lys	Asn	Asp	Met
1				5					10					15	
Ile	Ser	Val	Gly	Glu	Cys	Phe	Ala	Gln	Tyr	Tyr	Phe	Phe	Cys	Phe	Ser
			20					25					30		
Ala	Thr	Thr	Glu	Ile	Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr
		35					40					45			
Val	Ala	Ile	Cys	Asn	Pro	Leu	Leu	Tyr	Leu	Val	Val	Met	Ser	Lys	Arg
	50					55				60					
Leu	Cys	Thr	Val	Phe	Ile	Ser	Leu	Ser	Tyr	Ile	Ile	Gly	Val	Leu	Asn
65					70				75						80
Pro	Ile	Val	His	Val	Gly	Leu	Leu	Phe	Arg	Leu	Thr	Phe	Cys	Lys	Ser
				85					90					95	
Asn	Val	Ile	Asp	His	Phe	Tyr	Cys	Glu	Ile	Leu	Pro	Leu	Tyr	Thr	Ile
			100					105					110		
Ser	Cys	Thr	Asp	Ala	Ser	Leu	Asn	Ala	Leu	Val	Ile	Phe	Ile	Phe	Ala



225		230		235		240									
Pro	Met	Leu	Asn	Pro	Leu	Ile	Tyr	Thr	Leu	Arg	Asn	Ser	Glu	Met	Lys
		245		250		255									
Asn	Ser	Met	Glu	Lys	Leu	Leu	Gln	Lys	Met	Leu	Ser	Pro	Asn	Arg	Ile
		260		265		270									
Lys	Leu	Ser	Ser	Cys	Cys	Ser	Tyr	Asp							
		275				280									

<210> 2575

<211> 253

<212> PRT

<213> Mus musculus

<220>

<221> VARIANT

<222> (108)...(127)

<223> Any amino acid

<400> 2575

Met	Leu	His	Val	Asn	Ile	Thr	Asn	Thr	Ile	Phe	Ser	Thr	Phe	Leu	Val
1				5					10					15	
Thr	Gly	Ile	Pro	Gly	Leu	Glu	Ala	Val	Tyr	Ile	Trp	Ile	Ala	Ile	Pro
			20					25					30		
Phe	Cys	Ala	Met	Phe	Leu	Ile	Thr	Met	Val	Gly	Asn	Met	Thr	Ile	Ile
		35					40					45			
Ile	Val	Ile	Trp	His	Glu	Gln	Thr	Leu	His	Val	Pro	Met	Tyr	Leu	Phe
		50				55					60				
Leu	Ala	Met	Leu	Ala	Ser	Ser	Asp	Leu	Gly	Leu	Ser	Leu	Phe	Thr	Phe
65				70					75					80	
Pro	Thr	Leu	Leu	Arg	Ile	Phe	Leu	Leu	Asn	Asp	Arg	Glu	Leu	Thr	Thr
				85					90					95	
Thr	Ala	Cys	Phe	Thr	Gln	Met	Phe	Phe	Ile	His	Xaa	Xaa	Xaa	Xaa	Xaa
			100					105					110		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Glu
		115					120					125			
Gly	His	Lys	Trp	Cys	Gln	Ile	Gln	Asp	Ser	Leu	Asp	Leu	Glu	Leu	Gly
	130					135					140				
Met	Val	Val	Ser	Gln	Ala	Met	Val	Leu	Thr	Glu	Ala	Trp	Val	Phe	Tyr
145				150						155				160	
Lys	Ser	Asn	Thr	Ser	Leu	Leu	Asn	His	Leu	Tyr	Asn	Arg	His	Ser	Cys
			165						170					175	
Lys	Phe	Val	Ser	Thr	Gly	Tyr	Ile	Ser	Leu	Leu	Phe	Ser	Arg	Glu	Ile
			180					185					190		
Leu	His	Gln	Phe	Ser	Tyr	Gln	Phe	Leu	Ile	Ile	Ile	Gln	Leu	Pro	Ile
		195					200					205			
Tyr	Leu	Ile	Asp	Ile	Asn	Ile	Lys	Cys	Asn	Asn	Ser	Leu	Val	Phe	Ile
	210					215					220				
Val	Leu	Ser	Cys	Val	Leu	Thr	Lys	Val	Val	Gln	Ser	His	Ala	Thr	Leu
225					230					235					240
Ile	Glu	Val	Val	Met	Glu	Glu	Gly	Lys	Asp	Leu	Pro	Asn			
				245					250						

<210> 2576

<211> 97

<212> PRT

<213> Mus musculus

<400> 2576

```
Met Glu Lys Tyr Asn Leu Thr Met Val Thr Glu Phe Ile Leu Val Gly
 1          5          10          15
Ile Thr Tyr His Pro Glu Phe Gln Val Pro Leu Phe Gly Leu Phe Leu
 20          25          30
Ile Ile Tyr Leu Thr Ser Leu Phe Gly Asn Leu Gly Met Ile Ile Leu
 35          40          45
Thr Met Val Asp Ser Gly Leu Gln Thr Pro Met Tyr Phe Phe Leu Arg
 50          55          60
His Leu Ala Thr Thr Asp Leu Gly Tyr Ser Thr Ala Val Gly Pro Lys
 65          70          75          80
Met Leu Arg Asn Phe Thr Cys Asn Gln Asn Thr Ile Ser Phe Asn Ala
 85          90          95
Cys
```

<210> 2577

<211> 163

<212> PRT

<213> Mus musculus

<400> 2577

```
Leu Gln Ser Ser Val His Val Ala Leu Ala Phe Cys Leu Ser Phe Cys
 1          5          10          15
His Ser Asn Val Ile Asn His Phe Phe Cys Asp Ile Pro Pro Leu Leu
 20          25          30
Asp Ile Ser Cys Ser Asp Thr His Thr Asn Glu Ile Thr Leu Leu Val
 35          40          45
Leu Ala Thr Leu Asp Val Val Phe Thr Leu Leu Val Ile Leu Asn Thr
 50          55          60
Tyr Leu Leu Ile Phe Ile Ala Ile Leu Arg Met Arg Ser Ala Glu Ala
 65          70          75          80
Gln Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ile Thr Val Ser
 85          90          95
Ile Phe Phe Gly Ser Leu Ile Phe Met Tyr Leu Gln Pro Ser Phe Asn
 100          105          110
His Ser Met Asp Thr Asp Lys Ile Ala Ser Val Phe Tyr Thr Met Val
 115          120          125
Ile Pro Met Leu Asn Pro Val Val Tyr Ser Leu Arg Asn Lys Glu Val
 130          135          140
Lys Asn Ala Phe Lys Lys Val Val Glu Lys Leu Met Ser Ser Phe His
 145          150          155          160
Leu Val Asp
```

<210> 2578

<211> 124

<212> PRT

<213> Mus musculus

<400> 2578

```
Ser Leu Leu Cys Phe Thr Lys Ser Phe Leu Gly Ala Leu Val Leu Met
 1          5          10          15
```



<210> 2580  
 <211> 194  
 <212> PRT  
 <213> Mus musculus

<400> 2580  
 Phe Phe Pro Asn Met Trp Val Ala Val Ser Tyr Tyr Trp Gln Cys Pro  
 1 5 10 15  
 Leu Ser Tyr Arg Tyr Val Pro Ile Cys Tyr Pro Leu Arg Tyr Met Ser  
 20 25 30  
 Ile Lys Ser Leu Asn Leu Tyr Val Leu Leu Val Val Ile Ser Trp Ala  
 35 40 45  
 Phe Pro Ser Ala Asn Ala Leu Val His Ile Leu Leu Leu Ala Arg Leu  
 50 55 60  
 Ser His Phe Arg His Asn Thr Ile Pro His Ile Phe Lys Arg Ser Ala  
 65 70 75 80  
 Leu Leu Asn Leu Ser Ser Ser Glu Thr Ile Ile Asn Glu Leu Val Ile  
 85 90 95  
 Leu Pro Leu Gly Thr Val Ile Ile Leu Val Thr Tyr Gly Leu Ile Arg  
 100 105 110  
 Val Thr Ile Leu Arg Thr Leu Pro Ile Lys Gly Ile Cys Lys Ala Leu  
 115 120 125  
 Ser Thr Cys Asp Ser His Leu Ser Val Ser Leu Tyr Tyr Gly Ala Ile  
 130 135 140  
 Ile Gly Leu Tyr Leu Val Pro Ser Ser Asn Asn Ile Asn Asp Lys Asp  
 145 150 155 160  
 Val Asn Val Ser Ala Ile Tyr Asn Val Val Ile Pro Met Ile Asn Thr  
 165 170 175  
 Leu Ile Tyr Ser Leu Arg Asn Trp Asp Ile Ile Leu Ser Glu Val Thr  
 180 185 190  
 Gln Thr

<210> 2581  
 <211> 188  
 <212> PRT  
 <213> Mus musculus

<400> 2581  
 Ser Asn Pro Ala Ser Thr Leu Ile Tyr Ser Thr Gln Met Asn His Ile  
 1 5 10 15  
 Ile Gln Arg Ile Leu Val Ala Ser Ser Trp Val Cys Ser Phe Ser Ser  
 20 25 30  
 Val Leu Thr His Thr Val Ala Ile Ser Thr Leu His Phe Cys Gly Leu  
 35 40 45  
 Asn Val Val Asn Asn Phe Tyr Cys Asp Leu Pro Gln Leu Phe Gln Leu  
 50 55 60  
 Ser Cys Ser Thr Thr Gln Leu Asn Glu Leu Leu Leu Phe Ala Val Gly  
 65 70 75 80  
 Phe Leu Met Thr Glu Thr Ser Met Ala Leu Ile Phe Thr Phe Tyr Ile  
 85 90 95  
 Tyr Gly Ala Val Ala Ile Leu Gln Ile Arg Ser Ala Glu Gly Arg Lys  
 100 105 110  
 Ala Phe Ser Thr Tyr Ser Ser His Leu Thr Val Val Ala Ile Phe Tyr  
 115 120 125

Gly	Thr	Gly	Ile	Phe	Ala	Tyr	Met	Ser	Leu	Arg	Ser	Ile	Lys	Leu	Ser
130						135					140				
Asp	Asn	Asp	Lys	Ala	Ile	Gly	Ile	Phe	Asn	Thr	Val	Ile	Asn	Pro	Met
145					150					155					160
Leu	Asn	Pro	Leu	Ile	Tyr	Ser	Leu	Arg	Asn	Pro	Asp	Val	Gln	Ala	Ala
				165					170					175	
Leu	Trp	Lys	Val	Leu	Thr	Gly	Lys	Gln	Leu	Ser	His				
			180					185							

<210> 2582

<211> 331

<212> PRT

<213> Mus musculus

<400> 2582

Phe	Phe	Lys	Phe	Thr	Thr	Ser	Thr	Asp	Glu	Asp	Leu	Phe	Lys	Gln	Glu
1				5					10					15	
Lys	Leu	Asn	Ala	Ser	Thr	Leu	Met	Glu	Phe	Thr	Leu	Leu	Gly	Phe	Ser
			20					25					30		
Asn	Val	Pro	His	Leu	Gln	Trp	Val	Leu	Phe	Met	Val	Phe	Leu	Phe	Met
		35				40					45				
Tyr	Met	Thr	Ile	Leu	Leu	Cys	Asn	Ser	Ile	Ile	Ile	Val	Leu	Ala	Lys
	50					55					60				
Thr	Asp	Pro	Ala	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser	Asn	Phe
65					70					75					80
Ser	Phe	Leu	Glu	Ile	Cys	Tyr	Val	Thr	Ala	Thr	Ile	Pro	Arg	Met	Leu
				85					90					95	
Met	Asp	Leu	Tyr	Thr	Leu	Lys	Gly	Asn	Ile	Ser	Val	Phe	Ala	Cys	Ala
			100					105					110		
Thr	Gln	Met	Tyr	Phe	Val	Leu	Met	Leu	Gly	Ala	Thr	Glu	Cys	Leu	Leu
		115					120					125			
Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu
	130					135					140				
Gln	Tyr	Ser	Leu	Leu	Met	Lys	Asn	Lys	Val	Cys	Leu	Gln	Leu	Val	Ala
145					150					155					160
Ala	Ser	Trp	Ile	Ser	Gly	Ile	Pro	Val	Glu	Ile	Gly	Gln	Thr	Tyr	Gln
				165					170					175	
Ile	Phe	Ser	Leu	His	Phe	Cys	Ala	Ser	Asn	Arg	Ile	Asp	His	Phe	Phe
			180					185					190		
Cys	Asp	Ile	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys	Gly	Asp	Thr	Phe	Met
	195						200					205			
Asn	Thr	Val	Ala	Val	Tyr	Val	Val	Ala	Val	Val	Phe	Val	Met	Val	Pro
	210					215					220				
Phe	Leu	Leu	Ile	Ile	Val	Ser	Tyr	Ile	Lys	Ile	Ile	Cys	Asn	Ile	Met
225					230					235					240
Lys	Leu	Ser	Ser	Ala	Lys	Gly	Met	Ala	Lys	Ala	Phe	Ser	Thr	Cys	Ser
				245					250					255	
Ser	His	Leu	Ile	Val	Val	Ile	Leu	Phe	Tyr	Gly	Thr	Ala	Ser	Ile	Thr
			260					265				270			
Tyr	Leu	Gln	Pro	Lys	Gln	Ser	Gln	Ser	Glu	Gly	Met	Gly	Lys	Met	Leu
	275					280					285				
Ser	Leu	Phe	Tyr	Thr	Ile	Leu	Ile	Pro	Ala	Leu	Asn	Pro	Ile	Ile	Tyr
	290					295					300				
Ser	Leu	Arg	Glu	Gln	Arg	Tyr	His	Asp	Gly	Leu	Leu	Arg	Lys	Leu	His
305					310					315					320
Ser	Lys	Leu	Leu	Ile	Trp	Trp	Glu	Asn	Val	Lys					

<210> 2583  
 <211> 297  
 <212> PRT  
 <213> Mus musculus

<400> 2583  
 Met Gly Gln Ser Asn Asn Val Thr Glu Phe Val Leu Leu Gly Phe Thr  
 1 5 10 15  
 Gln Asp Pro Ala Gly Gln Lys Ala Leu Phe Val Met Phe Ser Leu Met  
 20 25 30  
 Tyr Ile Ala Thr Met Val Gly Asn Leu Leu Ile Val Gly Thr Val Ile  
 35 40 45  
 Ala Ser Pro Ser Leu Gly Ser Pro Met Tyr Phe Phe Leu Ala Ser Leu  
 50 55 60  
 Ser Leu Met Asp Ala Val Tyr Ser Thr Ala Ile Ser Pro Lys Leu Ile  
 65 70 75 80  
 Val Asp Leu Leu Arg Glu Lys Lys Thr Ile Ser Phe Arg Ala Cys Ile  
 85 90 95  
 Ser Gln Leu Phe Ile Glu His Leu Phe Gly Gly Val Asp Ile Val Ile  
 100 105 110  
 Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Lys Pro Leu  
 115 120 125  
 His Tyr Leu Ile Ile Met Asn Arg Arg Val Cys Ile Leu Phe Leu Val  
 130 135 140  
 Met Ala Trp Val Gly Gly Phe Val His Ala Leu Phe Gln Val Leu Ala  
 145 150 155 160  
 Val Tyr Asn Leu Pro Phe Cys Gly Pro Asn Ile Ile Asp His Phe Gly  
 165 170 175  
 Cys Asp Ile Tyr Pro Leu Leu Leu Leu Ala Cys Thr Asp Thr Tyr Phe  
 180 185 190  
 Ile Gly Leu Ser Val Ile Gly Asn Asn Gly Ala Met Cys Ile Val Ile  
 195 200 205  
 Phe Ile Leu Leu Leu Leu Ser Tyr Gly Ile Ile Leu Arg Ser Leu Lys  
 210 215 220  
 Asn His Ser Gln Glu Gly Arg Arg Lys Ala Leu Ser Thr Cys Gly Ser  
 225 230 235 240  
 His Ile Thr Val Val Phe Leu Phe Phe Val Pro Cys Ile Phe Met Tyr  
 245 250 255  
 Val Arg Pro Val Ser Ser Phe Pro Ile Asp Lys Phe Ile Thr Val Ile  
 260 265 270  
 Tyr Thr Ile Val Thr Pro Met Leu Asn Pro Leu Ile Tyr Thr Leu Arg  
 275 280 285  
 Asn Ser Glu Met Lys Asn Ser Arg Lys  
 290 295

<210> 2584  
 <211> 316  
 <212> PRT  
 <213> Mus musculus

<400> 2584  
 Ser Gln Thr Ala Asp Pro Lys Asn Ser Ser Ser Thr Val Thr Glu Phe  
 1 5 10 15



Ile	Leu	Val	Gly	Phe	Glu	Gln	Ser	Ser	Pro	Ser	Thr	Arg	Ala	Leu	Leu
			20					25					30		
Phe	Thr	Leu	Phe	Leu	Ala	Leu	Tyr	Ser	Leu	Ala	Met	Ala	Met	Asn	Gly
		35					40					45			
Leu	Ile	Ile	Phe	Ile	Thr	Trp	Thr	Asp	Pro	Arg	Leu	Asn	Ser	Pro	Met
	50					55					60				
Tyr	Phe	Phe	Leu	Gly	His	Leu	Ser	Phe	Leu	Asp	Val	Cys	Phe	Ile	Thr
65					70					75					80
Thr	Thr	Ile	Pro	Gln	Met	Leu	Val	His	Leu	Val	Thr	Lys	Asn	His	Thr
				85					90					95	
Val	Ser	Phe	Val	Ser	Cys	Met	Thr	Gln	Met	Tyr	Leu	Val	Phe	Leu	Val
			100					105					110		
Gly	Val	Ala	Glu	Cys	Ile	Leu	Leu	Ala	Phe	Met	Ala	Tyr	Asp	Arg	Tyr
		115					120					125			
Val	Ala	Ile	Cys	His	Pro	Leu	Asn	Tyr	Ala	Gln	Ile	Met	Ser	Gln	Lys
	130					135					140				
Val	Cys	Val	Arg	Leu	Val	Cys	Ser	Ser	Trp	Ile	Phe	Gly	Met	Val	Asn
145					150					155					160
Gly	Ile	Phe	Leu	Glu	Tyr	Ile	Ser	Phe	Arg	Asn	Pro	Phe	Cys	Lys	Asp
				165					170					175	
Asn	His	Ile	Glu	Asn	Phe	Phe	Cys	Glu	Ala	Pro	Ile	Val	Ile	Ala	Leu
			180					185					190		
Ser	Cys	Gly	Asp	Leu	Lys	Phe	Thr	Met	Lys	Leu	Ile	Phe	Val	Asp	Ala
		195					200					205			
Ile	Val	Val	Leu	Leu	Ser	Pro	Met	Val	Leu	Ile	Ile	Thr	Ser	Tyr	Ala
	210					215					220				
Arg	Ile	Leu	Ala	Ser	Ile	Leu	His	Arg	Ala	Ser	Ser	Ser	Ser	His	Arg
225					230					235					240
Lys	Thr	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Ile	Phe	Leu
				245					250					255	
Tyr	Thr	Ser	Ala	Met	Phe	Ser	Tyr	Met	Asn	Pro	Arg	Ser	Thr	His	Gly
			260					265					270		
Pro	Asp	Lys	Asp	Lys	Ser	Phe	Ser	Leu	Leu	Tyr	Thr	Ile	Ile	Met	Pro
		275					280					285			
Met	Cys	Asn	Pro	Val	Ile	Tyr	Ser	Phe	Arg	Asn	Lys	Glu	Met	Lys	Gly
	290					295					300				
Ala	Met	Gly	Arg	Ala	Leu	Gly	Arg	Gly	Ser	Leu	Ala				
305					310					315					

<210> 2585

<211> 318

<212> PRT

<213> Mus musculus

<400> 2585

Glu	Ala	Asn	Asp	Ser	Val	Val	Lys	Glu	Phe	Ile	Phe	Ile	Gly	Leu	Ser
1				5					10					15	
Asp	Ser	Gln	Gly	Leu	Gln	Ile	Phe	Leu	Phe	Ala	Phe	Phe	Leu	Ile	Phe
			20					25					30		
Tyr	Val	Gly	Ile	Val	Phe	Gly	Asn	Leu	Leu	Ile	Val	Met	Thr	Val	Thr
		35					40					45			
Tyr	Asp	Ser	His	Leu	His	Ser	Pro	Met	Tyr	Phe	Leu	Leu	Ala	Asn	Leu
	50					55					60				
Ser	Phe	Ile	Asp	Leu	Cys	Leu	Ser	Ser	Val	Thr	Ala	Pro	Lys	Met	Ile
65					70					75					80
Ala	Asp	Phe	Phe	Arg	Lys	His	Lys	Val	Ile	Ser	Val	His	Gly	Cys	Phe



Pro	Ala	Thr	Leu	Ser	Leu	Pro	Arg	Cys	Gly	His	His	Arg	Val	Asp	His
				165					170					175	
Phe	Leu	Cys	Glu	Met	Pro	Ala	Leu	Ile	Arg	Met	Ala	Cys	Val	Asn	Thr
			180					185					190		
Ala	Ala	Val	Glu	Gly	Thr	Val	Phe	Val	Leu	Ala	Ile	Gly	Ile	Val	Leu
		195					200					205			
Ser	Pro	Leu	Val	Phe	Ile	Leu	Val	Ser	Tyr	Gly	Tyr	Ile	Val	Arg	Ala
	210					215					220				
Val	Leu	Gln	Ile	Arg	Ser	Ala	Ala	Gly	Arg	Gln	Lys	Ala	Phe	Asn	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Thr	Val	Val	Ser	Leu	Phe	Tyr	Gly	Asn	Ile	Ile
				245					250					255	
Tyr	Met	Tyr	Met	Gln	Pro	Gly	Asn	Ser	Ser	Ser	Gln	Asp	Gln	Gly	Lys
			260				265						270		
Phe	Leu	Thr	Leu	Phe	Tyr	Asn	Ile	Val	Thr	Pro	Leu	Leu	Asn	Pro	Leu
		275					280					285			
Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys	Gly	Ala	Leu	Arg	Arg	Leu
	290					295					300				
Leu	Leu	Gly	Ser	Arg	Glu										
305					310										

<210> 2587

<211> 316

<212> PRT

<213> Mus musculus

<400> 2587

Met	Ser	Asn	Ser	Glu	Leu	Met	Lys	Asn	Gly	Ser	Leu	Ser	Leu	Cys	Thr
1				5					10					15	
Glu	Phe	Thr	Leu	Val	Ala	Phe	Ser	Ser	Leu	Ala	Glu	Leu	Gln	Leu	Val
			20					25					30		
Leu	Phe	Val	Val	Phe	Leu	Val	Leu	Tyr	Leu	Phe	Thr	Val	Gly	Gly	Asn
		35					40					45			
Leu	Thr	Ile	Ile	Cys	Val	Ile	Trp	Thr	Thr	Pro	Ser	Leu	His	Thr	Pro
	50					55					60				
Met	Tyr	Phe	Phe	Leu	Ala	Asn	Leu	Ser	Phe	Leu	Glu	Met	Cys	Tyr	Ile
65					70					75					80
Ser	Ser	Val	Val	Pro	Gln	Met	Leu	Val	His	Leu	Leu	Val	Gln	Leu	Lys
				85					90					95	
Thr	Ile	Ser	Val	Ala	Gly	Cys	Ala	Ala	Gln	Met	Tyr	Val	Phe	Thr	Ile
		100						105					110		
Leu	Gly	Leu	Thr	Glu	Cys	Cys	Leu	Leu	Ala	Thr	Met	Ala	Tyr	Asp	Arg
		115					120					125			
Phe	Val	Ala	Ile	Cys	Tyr	Pro	Leu	His	Tyr	Thr	Leu	Trp	Met	Asp	Pro
	130					135					140				
Ser	Val	Cys	Leu	Lys	Leu	Ala	Gly	Ala	Ser	Trp	Met	Thr	Gly	Ile	Leu
145					150					155					160
Val	Glu	Ser	Ala	Gln	Thr	Thr	Trp	Ile	Phe	Thr	Leu	Pro	Phe	Cys	Gly
			165						170					175	
Ala	Gly	Thr	Ile	Gln	His	Phe	Phe	Cys	Asp	Ile	Met	Pro	Val	Val	Lys
		180						185					190		
Leu	Ala	Cys	Val	Asp	Thr	Ser	Gln	Asn	Glu	Met	Val	Ile	Phe	Ile	Ile
		195					200					205			
Ser	Leu	Ile	Phe	Ile	Met	Ser	Pro	Cys	Leu	Phe	Ile	Leu	Cys	Ser	Tyr
	210					215					220				
Val	Arg	Ile	Ile	Leu	Thr	Ile	Leu	Lys	Met	Pro	Ser	Ala	Ala	Gly	Arg

225		230		235		240									
His	Lys	Ala	Phe	Ser	Thr	Cys	Ser	Ser	His	Ile	Leu	Val	Val	Ser	Leu
		245						250						255	
Phe	Tyr	Gly	Thr	Ala	Leu	Phe	Thr	Tyr	Leu	Gln	Pro	Lys	Ser	Ser	His
		260						265					270		
Thr	Pro	Asp	Thr	Asp	Lys	Val	Thr	Ala	Leu	Met	Tyr	Thr	Val	Val	Thr
		275						280					285		
Pro	Ala	Leu	Asn	Pro	Val	Ile	Tyr	Thr	Leu	Arg	Asn	Lys	Glu	Val	Lys
		290				295					300				
Glu	Ala	Phe	Gln	Lys	Val	Thr	Gln	Lys	Glu	Thr	Ser				
305					310					315					

<210> 2588

<211> 311

<212> PRT

<213> Mus musculus

<400> 2588

Met	Gly	Gly	Lys	Asn	Gln	Thr	Asp	Val	Ser	His	Phe	Phe	Leu	Leu	Gly
1				5				10					15		
Leu	Thr	Asp	Asp	Pro	Thr	Val	Lys	Pro	Val	Ile	Phe	Cys	Ile	Phe	Leu
		20						25				30			
Leu	Met	Tyr	Met	Val	Thr	Ile	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Val	Cys	Ser	Tyr	Ser	His	Leu	Gln	Thr	Pro	Met	Tyr	Phe	Phe	Ile	Ser
		50				55				60					
Asn	Leu	Ser	Ile	Asn	Asp	Ile	Cys	Leu	Ser	Thr	Thr	Val	Ile	Pro	Asn
65				70					75					80	
Met	Leu	Arg	Thr	Thr	Gln	Thr	Gln	Asp	Gln	Ser	Ile	Ser	Tyr	Ala	Gly
			85					90						95	
Cys	Leu	Thr	Gln	Leu	Cys	Phe	Val	Leu	Leu	Phe	Ala	Gly	Phe	Glu	Ser
			100					105				110			
Cys	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Tyr
		115					120					125			
Pro	Leu	Ser	Tyr	Thr	Val	Met	Met	Asn	Phe	His	Ser	Cys	Ala	Leu	Leu
		130				135					140				
Ile	Leu	Phe	Ser	Val	Leu	Ile	Ser	Val	Leu	Asn	Met	Gly	Leu	Leu	Gly
145				150					155					160	
Leu	Met	Val	Leu	Arg	Leu	Ser	Phe	Cys	Thr	Asn	Leu	Glu	Ile	Pro	Leu
			165					170						175	
Phe	Phe	Cys	Glu	Leu	Ser	Gln	Val	Met	Lys	Leu	Ala	Cys	Ser	Asp	Thr
		180						185					190		
Leu	Ile	Asn	Asp	Ile	Leu	Ile	Tyr	Leu	Ala	Thr	Phe	Ile	Phe	Gly	Gly
		195					200					205			
Ile	Pro	Ile	Ser	Gly	Ile	Ile	Phe	Ser	Tyr	Val	Gln	Ile	Ala	Ser	Ser
	210					215					220				
Val	Leu	Arg	Ile	Ser	Ser	Val	Lys	Gly	Arg	Cys	Lys	Ala	Phe	Ser	Thr
225				230					235					240	
Cys	Gly	Ser	His	Leu	Ser	Val	Thr	Ser	Leu	Ser	Tyr	Gly	Ser	Gly	Leu
			245					250					255		
Trp	Val	Tyr	Ile	Thr	Ser	Ser	Val	Ala	Ile	Leu	Pro	Lys	Lys	Thr	Ser
		260						265					270		
Val	Ala	Cys	Ile	Met	Tyr	Thr	Val	Val	Pro	Gln	Met	Leu	Asn	Pro	Phe
		275					280					285			
Ile	Phe	Ser	Leu	Arg	Asn	Lys	Asp	Met	Lys	Gly	Thr	Met	Lys	Lys	Phe
	290					295					300				

Ile Ser Lys Val Ala Ser Leu  
305 310

<210> 2589  
<211> 310  
<212> PRT  
<213> Mus musculus

<400> 2589  
Met Ser Ser Phe Asn Thr Thr Leu Lys Gly Gly Phe Ile Leu Met Gly  
1 5 10 15  
Phe Ser Asp Trp Pro Gln Leu Glu His Ile Phe Phe Val Phe Ile Ser  
20 25 30  
Met Phe Tyr Ile Leu Thr Ile Phe Gly Asn Phe Thr Ile Ile Thr Ile  
35 40 45  
Ser Arg Met Asp Gln Arg Leu Gln Thr Pro Met Tyr Phe Phe Leu Asn  
50 55 60  
Asn Leu Ser Phe Leu Asp Leu Cys Tyr Asn Thr Ser Ile Val Pro Gln  
65 70 75 80  
Leu Leu Val Asn Ile Ser Gly Ile Asp Lys Thr Met Ser Tyr Ala Gly  
85 90 95  
Cys Met Thr Gln Phe Phe Ile Val Leu Leu Gly Gly Thr Glu Cys  
100 105 110  
Met Leu Leu Val Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys His  
115 120 125  
Pro Leu His Tyr Thr Ser Ile Met His Pro Leu Leu Cys His Ala Leu  
130 135 140  
Ala Ile Ser Ser Trp Val Gly Gly Leu Val Asn Ser Leu Thr Gln Thr  
145 150 155 160  
Ser Leu Ile Met Thr Ile Pro Leu Cys Gly His His Leu Asn His Phe  
165 170 175  
Phe Cys Glu Met Leu Val Leu Leu Lys Leu Ala Cys Glu Asp Thr Val  
180 185 190  
Gly Thr Glu Ala Asn Leu Phe Val Ala Gly Ala Ile Ile Leu Val Cys  
195 200 205  
Pro Val Ala Leu Ile Leu Gly Thr Tyr Ala His Ile Ala His Ala Val  
210 215 220  
Leu Lys Ile Lys Ser Arg Ser Gly Arg Arg Lys Ala Leu Gly Thr Cys  
225 230 235 240  
Gly Ser His Leu Thr Gly Val Phe Leu Phe Tyr Gly Ser Ala Met Tyr  
245 250 255  
Met Tyr Leu Gln Pro Val His Val Tyr Ser Gly Ser Glu Gly Lys Phe  
260 265 270  
Ala Ala Leu Phe Tyr Thr Ile Ile Thr Pro Met Met Asn Pro Ile Tyr  
275 280 285  
Thr Leu Lys Asn Lys Asn Val Lys Gly Ala Leu Cys Lys Val Leu Gly  
290 295 300  
Arg Asp Thr Ser Thr Thr  
305 310

<210> 2590  
<211> 316  
<212> PRT  
<213> Mus musculus

<400> 2590

Met	Ala	Val	Met	Leu	Gly	Leu	Asn	Tyr	Thr	Phe	Val	Ser	Glu	Phe	Ile
1				5					10					15	
Leu	Ile	Gly	Phe	Ser	Thr	Phe	Pro	His	Leu	Gln	Leu	Met	Phe	Phe	Leu
			20					25					30		
Leu	Phe	Leu	Leu	Met	Tyr	Leu	Phe	Thr	Leu	Leu	Gly	Asn	Leu	Leu	Ile
		35					40					45			
Met	Thr	Thr	Ile	Trp	Ser	Glu	His	Ser	Leu	His	Thr	Pro	Met	Tyr	Leu
	50					55					60				
Phe	Leu	Cys	Ala	Leu	Ser	Ile	Ser	Glu	Ile	Phe	Tyr	Thr	Phe	Ala	Ile
65					70					75					80
Ile	Pro	Arg	Met	Leu	Ala	Asp	Leu	Leu	Thr	Thr	Leu	His	Ser	Ile	Ala
			85						90					95	
Phe	Leu	Ala	Cys	Ala	Ser	Gln	Met	Phe	Phe	Ser	Phe	Thr	Phe	Gly	Phe
			100					105					110		
Thr	His	Ser	Phe	Leu	Leu	Thr	Val	Met	Gly	Tyr	Asp	Arg	Tyr	Val	Ala
		115					120					125			
Ile	Cys	His	Pro	Leu	Arg	Tyr	Asn	Val	Leu	Met	Ser	Pro	Arg	Gly	Cys
	130					135					140				
Ala	Cys	Leu	Val	Ala	Trp	Ser	Trp	Val	Gly	Gly	Ser	Phe	Met	Gly	Thr
145					150					155					160
Val	Val	Thr	Thr	Ala	Ile	Phe	Asn	Leu	Thr	Phe	Cys	Gly	Pro	Asn	Glu
				165					170					175	
Ile	His	His	Phe	Thr	Cys	His	Val	Pro	Pro	Leu	Leu	Lys	Leu	Ala	Cys
			180					185					190		
Gly	Glu	Asn	Val	Leu	Glu	Val	Ala	Lys	Gly	Val	Glu	Ile	Val	Cys	Ile
		195					200					205			
Thr	Ala	Leu	Leu	Gly	Cys	Phe	Leu	Leu	Ile	Leu	Leu	Ser	Tyr	Ala	Phe
	210					215						220			
Ile	Val	Val	Thr	Ile	Leu	Lys	Ile	Pro	Ser	Ala	Glu	Gly	Arg	His	Lys
225					230					235					240
Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Val	Val	His	Tyr
				245					250					255	
Gly	Phe	Ala	Ser	Val	Ile	Tyr	Leu	Lys	Pro	Lys	Gly	Pro	Lys	Ser	Leu
			260					265					270		
Glu	Gly	Asp	Thr	Leu	Met	Gly	Ile	Thr	Tyr	Thr	Val	Leu	Thr	Pro	Phe
		275					280					285			
Leu	Ser	Pro	Ile	Ile	Phe	Ser	Leu	Arg	Asn	Lys	Glu	Leu	Lys	Asn	Ala
	290					295					300				
Met	Glu	Glu	Ser	Phe	Pro	Gln	Gln	Ile	Ile	Ser	Thr				
305					310					315					

<210> 2591

<211> 323

<212> PRT

<213> Mus musculus

<400> 2591

Met	Leu	His	Val	Asn	Ile	Thr	Asn	Thr	Ile	Phe	Ser	Thr	Phe	Leu	Val
1				5					10					15	
Thr	Gly	Ile	Pro	Gly	Leu	Glu	Ala	Val	Tyr	Ile	Trp	Ile	Ala	Ile	Pro
			20					25					30		
Phe	Cys	Ala	Met	Phe	Leu	Ile	Thr	Met	Val	Gly	Asn	Met	Thr	Ile	Ile
		35					40					45			
Ile	Val	Ile	Trp	His	Glu	Gln	Thr	Leu	His	Val	Pro	Met	Tyr	Leu	Phe
	50					55					60				

Leu	Ala	Met	Leu	Ala	Ser	Ser	Asp	Leu	Gly	Leu	Ser	Leu	Phe	Thr	Phe
65					70				75						80
Pro	Thr	Leu	Leu	Arg	Ile	Phe	Leu	Leu	Asn	Asp	Arg	Glu	Leu	Thr	Thr
				85					90						95
Thr	Ala	Cys	Phe	Thr	Gln	Met	Phe	Phe	Ile	His	Thr	Phe	Gln	Asp	Leu
			100					105					110		
Glu	Ser	Ala	Ile	Ile	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala	Ile
		115					120					125			
Ser	His	Pro	Leu	His	Tyr	His	Ser	Ile	Leu	Thr	Asp	Thr	Val	Ile	Ala
	130					135					140				
Lys	Ile	Gly	Leu	Ala	Ile	Val	Val	Arg	Thr	Leu	Thr	Val	Gln	Val	Pro
145					150					155					160
Leu	Pro	Ile	Leu	Leu	Lys	Arg	Leu	Tyr	Phe	Cys	His	Ser	Asn	Val	Leu
				165					170					175	
Ser	His	Ser	Tyr	Cys	Leu	His	Pro	Asp	Ile	Ile	Lys	Leu	Ser	Cys	Ser
			180					185					190		
Ser	Thr	Thr	Val	Asn	Ser	Ile	Phe	Gly	Leu	Phe	Val	Val	Leu	Ser	Thr
			195				200					205			
Met	Gly	Leu	Asp	Phe	Leu	Leu	Ile	Leu	Leu	Ser	Tyr	Ala	Leu	Ile	Leu
	210					215					220				
Lys	Thr	Val	Leu	Asn	Met	Ala	Ser	His	Ser	Gly	Arg	Leu	Lys	Ala	Leu
225					230					235					240
Asn	Thr	Cys	Ile	Ser	His	Leu	Cys	Ala	Val	Val	Leu	Phe	Phe	Thr	Pro
				245					250					255	
Met	Ile	Cys	Leu	Ser	Met	Leu	His	Arg	Phe	Gly	Pro	Arg	Leu	Pro	Ser
			260					265					270		
His	Val	Tyr	Val	Thr	Leu	Ala	Asn	Met	His	Phe	Leu	Ile	Pro	Pro	Val
			275				280					285			
Met	Asn	Pro	Ile	Val	Tyr	Val	Val	Lys	Thr	Lys	Gln	Ile	Arg	Asp	Lys
	290					295					300				
Ile	Gln	Lys	Leu	Phe	Ile	Arg	Lys	Ala	Thr	Lys	Lys	Ala	Gln	Ala	Ala
305					310					315					320
Ser	Ile	Thr													

<210> 2592

<211> 300

<212> PRT

<213> Mus musculus

<400> 2592

Met	Glu	Lys	Thr	Asn	His	Ser	Leu	Thr	Thr	Gln	Phe	Ile	Leu	Val	Gly
1				5					10					15	
Phe	Ser	Asp	His	Pro	Asp	Leu	Lys	Thr	Pro	Leu	Phe	Leu	Leu	Phe	Ser
			20					25					30		
Val	Ile	Tyr	Leu	Val	Thr	Met	Val	Gly	Asn	Leu	Gly	Leu	Val	Ala	Val
			35				40					45			
Ile	Tyr	Leu	Glu	Pro	Arg	Leu	His	Thr	Pro	Met	Tyr	Ile	Phe	Leu	Gly
	50					55				60					
Asn	Leu	Ala	Leu	Met	Asp	Ser	Cys	Cys	Ser	Cys	Ala	Ile	Thr	Pro	Lys
65					70					75					80
Ile	Leu	Glu	Asn	Phe	Phe	Ser	Val	Asp	Arg	Arg	Ile	Ser	Leu	Tyr	Glu
				85				90					95		
Cys	Met	Ala	Gln	Phe	Tyr	Phe	Leu	Cys	Leu	Ala	Glu	Thr	Ala	Asp	Cys
			100					105					110		
Phe	Leu	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Asn

115	120	125
Pro Leu Gln Tyr His Ser Met Met Ser Lys Lys Leu Ser Ile Gln Met		
130	135	140
Ser Ile Gly Thr Phe Ile Thr Ser Asn Leu His Ser Leu Ile His Val		
145	150	155
Gly Cys Leu Leu Arg Leu Thr Phe Cys Lys Ser Asn Arg Ile Asp His		
165	170	175
Phe Phe Cys Asp Ile Leu Pro Leu Tyr Arg Leu Ser Cys Thr Asp Pro		
180	185	190
Phe Ile Asn Glu Leu Met Ile Tyr Ile Phe Ser Met Pro Ile Gln Val		
195	200	205
Phe Thr Ile Thr Thr Val Leu Val Ser Tyr Phe Cys Ile Leu Leu Thr		
210	215	220
Ile Phe Lys Met Lys Ser Lys Asp Gly Arg Gly Lys Ala Phe Ser Thr		
225	230	235
Cys Ala Ser His Phe Phe Ser Val Ser Ile Phe Tyr Ala Cys Leu Leu		
245	250	255
Met Tyr Ile Arg Pro Phe Asp Asp Ser Asn Lys Asp Ile Pro Val Ala		
260	265	270
Ile Phe Tyr Thr Ile Ile Ile Pro Leu Leu Asn Pro Phe Ile Tyr Ser		
275	280	285
Leu Arg Asn Thr Glu Val Val Asn Ala Leu Arg Lys		
290	295	300

<210> 2593  
 <211> 10  
 <212> PRT  
 <213> Mus musculus

<400> 2593  
 Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys  
 1 5 10

<210> 2594  
 <211> 7  
 <212> PRT  
 <213> Mus musculus

<400> 2594  
 Phe Ser Thr Cys Ser Ser His  
 1 5

<210> 2595  
 <211> 6  
 <212> PRT  
 <213> Mus musculus

<400> 2595  
 Met Ala Tyr Asp Arg Tyr  
 1 5

<210> 2596  
 <211> 6



<212> PRT

<213> Mus musculus

<400> 2596

Met Ala Phe Asp Arg Tyr

1

5